

19980116.qrp v00_n972.qrs.980116

Date: Fri, 16 Jan 1998 19:03:09 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 972

QRP-L Digest 972

Topics covered in this issue include:

- 1) [1041] A cool 6 mtr QSO!
by Goemans <jgoemans@facstaff.wisc.edu>
- 2) [1042] Re: Mechanical Filters; Homebrew?
by Paul Helbert <phelbert@rica.net>
- 3) [1043] Pond House QRP Gathering
by Paul Stroud <aa4xx@ipass.net>
- 4) [1044] FOX: N/T Fox Schedule Change Reminder
by W2MY & W2MBY <n2mnn@spacegate.com>
- 5) [1045] FS or FT: MFJ-490/Benchner Paddle combo
by mwattcpa@earthlink.net (Marty Watt)
- 6) [1046] Re: Bright Idea Award #1; RG174U; Balun loss; c.w. tone
by bruce muscolino <w6toy@pop.erols.com>
- 7) [1047] Subscription Info: QRP Journals
by "Robert J. Gobrick" <rgobrick@worldnet.att.net>
- 8) [1048] Re: What CW tone do you prefer?
by "Robert J. Gobrick" <rgobrick@worldnet.att.net>
- 9) [1049] Re: Tuna Tin 2 Revisited
by KB9RPD <KB9RPD@aol.com>
- 10) [1050] DX Spot:LZ1GC on 10.102
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 11) [1051] SkyTec
by "Tim Cook" <timcook@erinet.com>
- 12) [1052] Re: RG174 versus balanced feeder
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 13) [1053] Re: Internet Access Charges
by "Ron Smith" <resmith@primenet.com>
- 14) [1054] Re: Web page links are mixed up
by "Ron Smith" <resmith@primenet.com>
- 15) [1055] Re: VENDORS SITE
by John Levreault <jlevro@shore.net>
- 16) [1056] test
by "Alan H" <tentec@hotmail.com>
- 17) [1057] Re: Internet Access Charges
by ki7mn@dancris.com
- 18) [1058] N/T+ FOX SUPER EARS!
by ARDUJENSKI <ARDUJENSKI@aol.com>
- 19) [1059] Re: [995] battery query

- by Doug Faunt N6TQS +1-510-655-8604 <faunt@netcom.com>
- 20) [1060] Old QRP Articals
by Fred Lesnick <flesnick@Quetico.tbaytel.net>
- 21) [1061] Dan's update and a cry for help
by "Frank Grigaliunas" <fgrig@iea.com>
- 22) [1062] Natural Filtering
by kt3a@juno.com
- 23) [1063] telephone and internet
by Roger Braker <msebrakr@telepath.com>
- 24) [1064] FS: OHR 100A (30mtrs) unbuilt
by amarriot@Direct.CA (Albert Daniel Marriott)
- 25) [1065] Re: Compact Loop Antenna's (DCTL)
by mwattcpa@earthlink.net (Marty Watt)
- 26) [1066] Re: GQRP - Good Webb Site Antenna's
by af852@rgfn.epcc.Edu (William R Colbert)
- 27) [1067] N/T+ Fox
by Shepherd <Shepherd@aol.com>
- 28) [1068] Re: telephone and internet
by mwattcpa@earthlink.net (Marty Watt)
- 29) [1069] N/T+ Fox for 1/19/98
by Shepherd <Shepherd@aol.com>
- 30) [1070] Re: telephone and internet
by Ed Manuel <n5em@flash.net>
- 31) [1071] Defective lighter needed
by Mike Czuhajewski <wa8mcq@u1.abs.net>
- 32) [1072] Re: Defective lighter needed
by Monte Stark <ku7y@sage.dri.edu>
- 33) [1073] KENWOOD TS-570V?
by Mike Duke <K5xu@cris.com>
- 34) [1074] Re: 6 meter operation
by Mike Duke <K5xu@cris.com>
- 35) [1075] Foxed Again!!
by WA4DAI <WA4DAI@aol.com>
- 36) [1076] Re: KENWOOD TS-570V?
by Ed Tanton <n4xy@bellsouth.net>
- 37) [1077] Re: RG174 versus balanced feeder
by "Bob Kellogg" <ae4ic@nr.infi.net>
- 38) [1078] Re: QRP Tuners
by "Karl B. Staddon" <ve6kbs@AGT.NET>
- 39) [1079] FOX - my what large ears you have!
by Tim Ahrens <tahrens@inetport.com>
- 40) [1080] FYBO - New Rigs anyone?
by Tim Ahrens <tahrens@inetport.com>
- 41) [1081] Re: Internet Access Charges
by WB0NZM <WB0NZM@aol.com>
- 42) [1082] Re: Internet Access Charges
by WB0NZM <WB0NZM@aol.com>
- 43) [1083] Re: Internet Access Charges

- by WB0NZM <WB0NZM@aol.com>
- 44) [1084] Tuners?
by MSU1972 <MSU1972@aol.com>
- 45) [1085] Re: Bright Idea Award #1; RG174U; Balun loss; c.w. tone
by Adrian Weiss <aweiss@sunflowr.usd.edu>
- 46) [1086] Re: Fox AB7TK
by Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
- 47) [1087] Re: best tone for copying CW
by "Harley L. Miller" <hmiller@sound.net>
- 48) [1088] Re: Fox AB7TK
by n4js@pobox.com (John Sielke)
- 49) [1089] Re: English before writing, and other matters!
by Leon Heller <leon@lfheller.demon.co.uk>
- 50) [1090] Re: Defective lighter needed
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 51) [1091] Tuna Tin Two Photo/Webpage!!!
by wpc@west.net (John Roblin / Whiterook Products Co.)
- 52) [1092] FOX alert
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 53) [1093] Re: QRP Tuners
by "Dave Rowe" <elim@ime.net>
- 54) [1094] Re: What CW tone do you prefer?
by jeverhar@camden.lmco.com
- 55) [1095] Re: Preferred CW pitch
by "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
- 56) [1096] CW Tone Comments
by "Watson R Gabriel Jr" <wgabriel@duke-energy.com>
- 57) [1097] Non-QRP: Need help from TS-570D owners
by "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
- 58) [1098] Dog Sled QRP DXpedition
by Nick Franco <kf2ph@bnl.gov>
- 59) [1099] What are the MARS/CAP bands?
by "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
- 60) [1100] Internet charges to nauseum!
by Jess Gypin <jessqrp@concentric.net>
- 61) [1101] Re: Bright Idea Award #1; RG174U; Balun loss; c.w. tone
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 62) [1102] How to lookup qrp-l #
by Mark E Gustoff <Mark_E_Gustoff@ccm.ch.intel.com>
- 63) [1103] "Effective" Antenna Height
by Andy Fox <foxes@theriver.com>
- 64) [1104] 6 meter ops
by "JUNIUS B FOX" <w5hir@gte.net>
- 65) [1105] Re: What CW tone do you prefer?
by George Gingell <k3tks@u1.abs.net>
- 66) [1106] Re: What CW tone do you prefer?
by Monte Stark <ku7y@sage.dri.edu>
- 67) [1107] Missing Pages in the Quarterly

by Monte Stark <ku7y@sage.dri.edu>
68) [1108] Re: Bright Idea Award #1; RG174U; Balun loss; c.w. tone
by "Claton Cadmus" <aplitech@spacestar.net>
69) [1109] Re: "Effective" Antenna Height (long)
by "Dave Rowe" <elim@ime.net>
70) [1110]
by Mark E Gustoff <Mark_E_Gustoff@ccm.ch.intel.com>
71) [1111] Re: How to lookup qrp-l #
by "Ron Smith" <resmith@primenet.com>
72) [1112] Got My qrp-l #
by Mark E Gustoff <Mark_E_Gustoff@ccm.ch.intel.com>
73) [1113] Re: "Effective" Antenna Height (long)
by Andy Fox <foxes@theriver.com>
74) [1114] Odd Thoughts on Balanced Feedline and Tuners (long)
by ji3m@maxwell.com (James R. Duffey)
75) [1115] Re: Internet charges to nauseum!
by "Ron Smith" <resmith@primenet.com>
76) [1116] Antennas: Any difference between hot and ground legs of dipole?
by "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
77) [1117] Re: "Effective" Antenna Height (long)
by "Michael A. Gipe" <mgipe@reliablemeters.com>
78) [1118] Notched NorCal K8FF Paddle Handles
by "Paul Christensen" <paulc@mediaone.net>
79) [1119] SIERRA MODS ANYONE??
by QLF%mimi@magic.itg.ti.com
80) [1120] QRP freq on 17 meters?
by "Ronald Hands" <rhands@hwcen.org>
81) [1121] Solar Info: 15Jan98
by Paul Harden <pharden@aoc.nrao.edu>
82) [1122] Re: Notched NorCal K8FF Paddle Handles
by "Michael A. Gipe" <mgipe@reliablemeters.com>
83) [1123] Re: "Effective" Antenna Height
by Monte Stark <ku7y@sage.dri.edu>
84) [1124] Re: Solar Info: 15Jan98
by "Michael A. Gipe" <mgipe@reliablemeters.com>
85) [1125] Re: How to lookup qrp-l #
by adams@chuck.dallas.sgi.com (Chuck Adams)
86) [1126] Re: Tuna Tin Two Photo/Webpage!!!
by Ed Loranger <we6w@qsl.net>
87) [1127] Re: QRP freq on 17 meters?
by adams@chuck.dallas.sgi.com (Chuck Adams)
88) [1128] Small wonders GM-30 For sale-Cheap
by "Jeff M. Gold" <JGold@tntech.edu>
89) [1129] FOX ID Report
by Randy Foltz <rfoltz@wsunix.wsu.edu>
90) [1130] EGIISTRATION FOR THE QRP BANQUET OPENS!!!
by "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
91) [1131] Re: Good Webb Site Antenna's

by Bill Howell <bhowell@mail.utexas.edu>
92) [1132] Re: FOX ID Report
by Ed Loranger <we6w@qsl.net>
93) [1133] Extruded enclosures
by Peter_Simpson@3com.com
94) [1134] QRP vs Ditital on 14.060
by Bill Jones <kd7s@psnw.com>
95) [1135] Military NVIS antenna - crossed inverted vees?
by Peter_Simpson@3com.com
96) [1136] Re: FOX ID Report
by Monte Stark <ku7y@sage.dri.edu>
97) [1137] Re: "Effective" Antenna Height
by Steve Galchutt <n0tu@webaccess.net>
98) [1138] Geez, why didn't I think of that before!
by Jeff Grudin <grudin@pacific.vdbs.com>
99) [1139] Emtech 20
by tom whalen <whalen@swcp.com>
100) [1140] ICOM Reflector
by sgordon1@ibm.net
101) [1141] beer can vertical
by Michael Maiorana <mikemo@ibm.net>
102) [1142] RE: beer can vertical
by "Caro, Carlos" <CCaro@ccs.lmco.com>
103) [1143] FYBO '98
by wa5whn@juno.com
104) [1144] FOX: NOGLM log for Thursday
by "Buck, Preston D" <BuckPD@corning.com>
105) [1145] Re: Military NVIS antenna - crossed inverted vees?
by torell@sicom.com (Kent Torell)
106) [1146] Re: Effective Antenna Height
by Joe Gervais <vole@primenet.com>
107) [1147] Re: QRP vs Ditital on 14.060
by "Steve Hurst" <shurst@magiclink.com>
108) [1148] Re: 6 meter operation
by Robert Nygren <rnygren@epix.net>
109) [1149] Learning Morse
by "Marshall Emm" <mgemm@mtechnologies.com>
110) [1150] Re: FOX ID Report
by "Watson R Gabriel Jr" <wgabriel@duke-energy.com>
111) [1151] RE: beer can vertical
by Ed Manuel <n5em@flash.net>
112) [1152] Re: beer can vertical
by Robert Parks <rob3ert@vegas.infi.net>
113) [1153] FS: HW-9, OHR EXPLORER-II
by "John Sundstrom" <sundstrj@gvsu.edu>
114) [1154] FOX: AB7TK/WE6W Story...
by Ed Loranger <we6w@qsl.net>
115) [1155] Re: beer can vertical

by Bill Schiller <schiller@cherokee.nsuok.edu>
116) [1156] Re: QRP vs Ditital on 14.060
by Ed Loranger <we6w@qsl.net>
117) [1157] Some rigs hard of hearing?
by BParkes <BParkes@aol.com>
118) [1158] Trade for Laptop
by flydnq7x@primenet.com (Floyd Smithberg)
119) [1159] Re: Some rigs hard of hearing?
by Ed Loranger <we6w@qsl.net>
120) [1160] 38 Special in NH
by N10DL <N10DL@aol.com>
121) [1161] Bazooka Antenna
by John Anthony Reynolds <D2250077@infotrade.co.uk>
122) [1162] FS: Autronics Paddle
by "Tim Cook" <timcook@erinet.com>
123) [1163] FS: Dentron Super Tuner Plus
by nq2rp@juno.com (B/BAMS Club Station)
124) [1164] 17 meters
by "Ronald Hands" <rhands@hwc.org>

Date: Thu, 15 Jan 1998 18:14:25 -0600
From: Goemans <jgoemans@facstaff.wisc.edu>
To: qrp-l@Lehigh.EDU
Subject: [1041] A cool 6 mtr QSO!
Message-ID: <199801160011.SAA81884@mail1.doit.wisc.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi all,

Discussions about the magic band reminded me, several weeks ago during a Es opening to the east coast, I worked Rick Littlefield, K1BQT!!! And he was running a MFJ 6 mtr SSB rig. Cool! Said he is working on a 2 mtr box...

PS I was QRP also, 10 W PEP.

72, Paul

Paul R Goemans WA9PWP
1508 Sundt Lane
Stoughton, Wi. 53589-1069 608-877-4151
QRP ARCI 7291 NorCal 1226 QRP-L 127 FISTS 2153 G QRP 9879

Date: Thu, 15 Jan 1998 07:14:29 -0500
From: Paul Helbert <phelbert@rica.net>
To: we6w@qsl.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [1042] Re: Mechanical Filters; Homebrew?
Message-ID: <34BDFDA5.82568E97@rica.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I know nothing about mechanical filters yet am game to learn. (Comma left out intentionally for double meaning.)

73,

Paul, Wv3j

Date: Thu, 15 Jan 1998 19:23:03 -0500
From: Paul Stroud <aa4xx@ipass.net>
To: klqrp <klqrp@waterw.com>
Cc: Andrew Lewis K4HQ <K4HQ@aol.com>, Bob Kellogg AE4IC <AE4IC@nr.infi.net>, Dave Johnson WA4NID <WA4NID@amsat.org>, Derek Brown WF4I <dbrown@rfmd.com>, Don Shipman W3RDF <DLShips@aol.com>, "J.P. Keon AB4PP" <jpkeon@bellsouth.net>, John McKee WB4OFT <jmckee@rfmd.com>,
Subject: [1043] Pond House QRP Gathering
Message-ID: <34BEA867.F7C0D8E5@ipass.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

(This posting is being fwded to QRP-L since the KL server is currently down)

Dear Gang,

The Grand Strand QRP Society has invited the KL Gang to join them for a "Pond House Gathering." Richard Booth, AB4LG, has a wonderful guest-house-by-the-pond, which will serve as our gathering place. Richard is even getting the firewood supply stocked up to keep us warm and cozy with his fireplace!

This QRP Fest will take place Saturday, February 28th. Spouses are also invited, and those who wish may spend the night at the Pond House and visit the sights of nearby Myrtle Beach.

Carpooling arrangements will be worked out once we get an idea of who would like to attend. My plans are to drive down early Saturday morning and return to Raleigh late Saturday night.

You will find the Grand Strand Gang to be a most accommodating group. There is no cost involved with this trip. We hope you will consider this opportunity for QRP fellowship. You'll get the opportunity to see some of the neatest homebrew QRP creations in the world, courtesy of W3RDF and crew.

Please let me know if you would like attend the Pond House Gathering.

72,

Paul AA4XX (919) 779-1637

Date: Thu, 15 Jan 1998 19:18:06 -0500
From: W2MY & W2MBY <n2mnn@spacegate.com>
To: QRP-L@Lehigh.EDU
Subject: [1044] FOX: N/T Fox Schedule Change Reminder
Message-ID: <34BEA6B6.750D@spacegate.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi all,

One more reminder.....

The presentation is coming out really nice.

> Hi all,
> I just want to announce that I won't be the N/T FOX this Friday
> evening local time (Saturday, January 17, 0000 to 0200 UTC). My father
> and I are giving an Amateur Radio presentation to a Boy Scout Troop
> then. However, I will be the N/T FOX the following night which is
> Saturday evening local time (Sunday, January 18, 0000 to 0200 UTC). If
> there is a conflict, please let me know, but it seems OK from the last
> N/T Fox list that Chuck posted. Frequency will be around 7.141 as
> usual.
>
> 72,
>
> John, W2MBY
> age:11

Date: Fri, 16 Jan 1998 00:18:40 GMT
From: mwattcpa@earthlink.net (Marty Watt)
To: qrp-l@Lehigh.EDU
Subject: [1045] FS or FT: MFJ-490/Bencher Paddle combo
Message-ID: <34bf39da.277513618@mail.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable

I have a Bencher/MFJ Menu-driven memory keyer combo I'd like to sell or =
trade.
Like new condition. The retail is around \$170.

Make offers. I prefer trades, as they allow me to experience new stuff!!

--
72 es 73 de Marty, KM7W

=46ranklin, Tennessee <http://home.earthlink.net/~mwattcpa> =
=20
NorCal #2031 -- ARCI #7514 -- QRP-L #0953 -- AK/QRP #098 -- Grid EM65

Date: Thu, 15 Jan 1998 19:20:18 -0500 (EST)
From: bruce muscolino <w6toy@pop.erols.com>
To: n0tu@webaccess.net
Cc: aweiss@sunflowr.usd.edu, QRP-L@Lehigh.EDU
Subject: [1046] Re: Bright Idea Award #1; RG174U; Balun loss; c.w. tone
Message-ID: <2.2.16.19980115200853.203f9658@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:10 AM 1/15/98 -0700, you wrote:

>Boy Ade...That's what I call extremely fine-tuned, inverse, selective
>listening!

>

It is extremely fine tuned listening, not of the type you'd get by analyzing
the auditory responses of the human ear, but one that comes from experience.
It has been mentioned on here before, and it does work!

Date: Thu, 15 Jan 1998 18:34:39 -0600
From: "Robert J. Gobrick" <rgobrick@worldnet.att.net>
To: qrp-l@Lehigh.EDU
Cc: Paul Harden <pharden@aoc.nrao.edu>
Subject: [1047] Subscription Info: QRP Journals
Message-ID: <3.0.32.19980115182540.00b69508@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Paul and Gang,

Just for folk's information - the latest issue of Worldradio (Jan 99) has the best rack-up of QRP Clubs to date. You can find this information in Richard Fisher KI6SN "QRP" column. This is part of Richard's annual QRP Survey.

73/72 Bob N0EB

Date: Wed, 14 Jan 1998 13:49:32 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-l@Lehigh.EDU
Subject: [930] Subscription Info: QRP Journals
Message-ID: <Pine.SOL.3.91.980114114908.19282A-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

OK, here's the first crack at this. Listed below is the pertinent info I have access to for ARCI, CQC and NorCal for subscribing to their journals, web address, etc. If you note an error, let me know. I will be adding info for G-QRP/Sprat shortly ... just don't have the new info handy right now. Will keep this around and updated as a sorta quasi-official QRP-L FAQ thingie I'll post occassionally when questions arise or the mood hits me. The intent is for those clubs and journals intended for national/global audience, not local clubs. If I omitted such a journal, let me know and I'll add it.

We forget there are new people on QRP-L all the time not familiar with the dominant journals. With all the recent chatter about QRPP and QQ, missing pages, extra pages, missing grounds and bent corners ... I have received numerous emails inquiring about these journals. So here's the subscription info for those interested. I do recommend subscribing to at least one (if not all) for a diversity of excellent QRP related

articles and construction projects.

Date: Thu, 15 Jan 1998 18:34:36 -0600
From: "Robert J. Gobrick" <rgobrick@worldnet.att.net>
To: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
Cc: qrp-1 <qrp-1@Lehigh.EDU>
Subject: [1048] Re: What CW tone do you prefer?
Message-ID: <3.0.32.19980115180714.00b69508@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Scott,

Very interesting analysis. So what you are saying is that IF one is capable of receiving higher frequency tones (dog) then one's comprehension of the code characters should be better. So what is the human upper limit that one can hear code at a particular speed, especially considering that human high frequency response may drop off with age(is that true?). Also is there less signal to noise ratio at higher frequencies due to high frequency receive noise?

So I guess my real question is, and maybe this is what Daniel was after, why is the 750-800 Hz tone used so often - is it just a de facto standard that someone set years ago? Is there really an optimal range of tones at a particular code speed?

Anyway this sounds (sorry) like an interesting topic - hi.

Cheers 73/72 Bob N0EB

Date: Wed, 14 Jan 1998 08:51:38 -0500 (EST)
From: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
To: qrp-1 <qrp-1@Lehigh.EDU>
Subject: [883] Re: What CW tone do you prefer?
Message-ID: <Pine.LNX.3.95.980114083230.14332P-1000000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I personally fall somewhere between 650 and 700 Hz.

Many people feel that lower freq (400 Hz) is better although I don't

subscribe to this myself. There is the old mathematical formula that supposedly backs up this fact, at least for higher speeds of code, although I have no actual idea if it really holds.

Imagine the ear takes one full cycle of AF pressure to register a note. I personally believe in frequency-domain analysis, thus EVERYTHING, no matter how long its duration, has a complete set of frequencies.

Anyway, imagine for the sake of argument 40 wpm CW. "PARIS" takes 1.5 seconds to send, including spaces, as "PARIS" is the standard word by which CW is timed.

Let's assume that gaps are

Inter-element 1 unit
Inter-character 3 units
Inter-word 5 units

and

Dit 1 unit
Dah 3 units

Examining lengths of stuff...

$P = \text{dit} + \text{sp} + \text{dah} + \text{sp} + \text{dah} + \text{sp} + \text{dit} = 1 + 1 + 3 + 1 + 3 + 1 + 1 = 11$

$A = \text{dit} + \text{sp} + \text{dah} = 1 + 1 + 3 = 5$

$R = \text{dit} + \text{sp} + \text{dah} + \text{sp} + \text{dit} = 1 + 1 + 3 + 1 + 1 = 7$

$I = \text{dit} + \text{sp} + \text{dit} = 3$

$S = \text{dit} + \text{sp} + \text{dit} + \text{sp} + \text{dit} = 5$

Plus 3 spaces in between letters, plus 5 at the end before the next word.

For the letters:

$11 + 5 + 7 + 3 + 5 = 31$

Plus $4 \times 3 = 12$

Plus 5

$31 + 12 + 5 = 48$ "time elements."

In a period of 1.5 seconds, this gives each about 31.25 milliseconds.

Now, combining tones with Code speed...we find that a "dit" contains

Tone Period Waves per "dit"

200 Hz	5 mS period	6.25
400 Hz	2.5 mS period	12.5
600 Hz	1.67 mS period	18.7
800 Hz	1.25 mS period	25.0

So what does this mean? If it takes YOUR eardrum/hammer/anvil/stirrup and brain more waves to determine the presence of a tone, it MIGHT not happen at lower pitches.

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
* 6m 82 grids on 8w * DXCC WAS WAC * QRP-L #147 * QRP ARCI #9054 *
* <http://w3eax.umd.edu/~ham> * ARRL Life Member /Laurel ARC/UMARA *
*** 301-549-1022 h 301-982-1015 w *** 35 wpm HF mobile CW Neon ***

On Wed, 14 Jan 1998, W. Daniel, 9V1ZV wrote:

> Hi

Date: Thu, 15 Jan 1998 19:37:02 EST
From: KB9RPD <KB9RPD@aol.com>
To: ki6ds@dpol.k12.ca.us, qrp-l@Lehigh.EDU
Subject: [1049] Re: Tuna Tin 2 Revisited
Message-ID: <2e4cb341.34beabb0@aol.com>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Hot digity dog! ;-) I'm excited! I must say, I didn't expect to create a storm of interest, but ... hey, that's what QRP and amateur radio is about! ... the promotion of education and skills of the amateur service! ;)

I will have to admit, I have always been fascinated with electronics and that is probably why amateur radio interested me as a child. Most of it has always been complex. BUT, with my new license (October anyway), I want to learn about electronics more, try out an easy first time radio (inexpensive) and maybe, perhaps, possibly...I might learn enough to design a few things.

Which brings me to something...I purchased the QST on CDrom for 1980-1989. I saw Doug DeMaw in nearly (if not every) issue. I've printed out several very interesting articles and am continuing to read! What has happened to Mr. DeMaw?

73, Ted - KB9RPD

In a message dated 98-01-15 12:19:46 EST, ki6ds@dpol.k12.ca.us writes:

<< Now with the renewed interest, I will redo the schematic in Circad and make the files available on the NorCal Web Page and also see if Jerry can post the circuit diagram on the page, heck, may even do the whole article there. But for those of you who just can't wait, here are the updates to the parts that are no longer available at Radio Shack. >>

Date: Thu, 15 Jan 1998 20:02:51 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: QRP-L Discussion Group <QRP-L@Lehigh.EDU>, "Doc W.D. Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [1050] DX Spot:LZ1GC on 10.102
Message-ID: <199801152006_MC2-2F78-F8D0@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Gang:

I know opinions differ on postings like this. But....Stan LZ1GC is on 10.102 right. He is QRP and has great ears <VVBG>. I got him with 3 watts out of the Yaesu 900CAT to the GAP Titan DX. There is time before the FOX hunt... :-).

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 ARS 311 FISTS 3868 mn-qrp 19
nj-qrp 69 ak/qrp 139 AR QRP 73 HI-QRP 30 ARCI 9398 ARRL
QRP WAS 44/42 DXCC 73/44 Grid EN34 <>< A 1997/98 FOX.

Omni V Corsair I Yaesu 900AT Wilderness Sierra SW-40 49er
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D Matchbox GAP Titan
TNT/2 Windom SLV/W6MMA G5RV Timewave 599zx Auttek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

Date: Thu, 15 Jan 1998 20:08:15 -0500
From: "Tim Cook" <timcook@erinet.com>
To: "QRP" <qrp-l@Lehigh.EDU>
Subject: [1051] SkyTec
Message-ID: <000201bd221c\$5a62e060\$2d735acf@timcook.erinet.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks to all for the info on the speaker. For those who mentioned that it would really surprise me with the sound, You were right!!!!

It really does work well. this one is not mint or all original. There is a very small slide switch on the front, and an extra jack on the back so you can switch between it and a full freq speaker.

thanks again
Tim
NZ8J

Date: Thu, 15 Jan 1998 20:16:56 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:vole@primenet.com" <vole@primenet.com>, "Doc W.D. Lindsey/K0EVZ" <70511.3041@compuserve.com>, QRP-L Discussion Group <QRP-L@Lehigh.EDU>
Subject: [1052] Re: RG174 versus balanced feeder
Message-ID: <199801152020_MC2-2F77-1E33@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Joe:

Well it has worked for me even during FOX hunts this season! Have a couple of times loaded the Sierra (1.95 watts out) into a W3EDP 84' Long Wire using the ZM-1. BTW *did* have to use the 17' counterpoise. But I snagged the FOXes :-). Seems like a longer wire would be even better.

In both cases I shot the far end of the LW as vertically as possible. One time it was about 50 feet. The other time it was not quite as high.

Am always working on portable antennas. Have several along just in case. But I have had as good luck with this simple antenna as with anything else. Luck--maybe. But there it is.

My \$.02 worth. Good luck and go for it!

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqc 414 ARS 311 FISTS 3868 mn-qrp 19
nj-qrp 69 ak/qrp 139 AR QRP 73 HI-QRP 30 ARCI 9398 ARRL
QRP WAS 44/42 DXCC 73/44 Grid EN34 <>< A 1997/98 FOX.

Omni V Corsair I Yaesu 900AT Wilderness Sierra SW-40 49er
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D Matchbox GAP Titan
TNT/2 Windom SLV/W6MMA G5RV Timewave 599zx Auttek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

Date: Thu, 15 Jan 1998 18:27:03 -0700
From: "Ron Smith" <resmith@primenet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [1053] Re: Internet Access Charges
Message-ID: <004601bd221e\$4fb0ec00\$5122a5ce@primenet.com.primenet.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bob, I was sitting here nodding my head and saying yep, yep, Bob's right on -- until you said "mandated by the Congress." If that is really the case, those funds will be spent for other more important things like ketchup and it's long term effects on the reproduction of the common house fly and their offspring based on a 75 year plan.

72 guys... Only kidding...

Ron

Date: Thu, 15 Jan 1998 18:30:18 -0700
From: "Ron Smith" <resmith@primenet.com>
To: <ekv@erols.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [1054] Re: Web page links are mixed up
Message-ID: <004701bd221e\$50e6ace0\$5122a5ce@primenet.com.primenet.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Must be on your end Elmar. I went to the URL you provided and randomly selected messages. Every time the right message came up.

Sorry...

72

Ron

-----Original Message-----

From: Elmar Vaheer <ekv@erols.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Date: Thursday, January 15, 1998 3:55 PM

Subject: Web page links are mixed up

>QRP-L Archive by thread at

><http://listserv.lehigh.edu/lists/Archives/qrp-l/>

>when I point to a message and click a different message comes up. I

>think the links are mixed up or is there something wrong on my end?

>

>72 73 de Elmar KB2VTN

>

>

>

>

>

Date: Thu, 15 Jan 1998 20:36:26 -0500

From: John Leveault <jlevro@shore.net>

To: ARDUJENSKI@aol.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [1055] Re: VENDORS SITE

Message-ID: <3.0.3.32.19980115203626.009d5100@shell1.shore.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

At 05:11 PM 1/15/98 EST, ARDUJENSKI wrote:

>

>Making s short story long. I found AMIDON (or their authorized rep) with no

>minimum order and they only have a \$2 handling charge for orders under \$20. I

>have included it here for you that can use this information.

>

><http://Bytemark.com/amidon/> Amidon

>Associates Product Catalog (click here)

>

>

Don't forget Dan's Small Parts, either. He has a good inventory of the smaller cores.

72 de nb1i

John Levreault

Date: Thu, 15 Jan 1998 17:49:47 PST
From: "Alan H" <tentec@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [1056] test
Message-ID: <19980116014947.17559.qmail@hotmail.com>
Content-Type: text/plain

like I said test...

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Thu, 15 Jan 1998 18:49:59 -0700 (MST)
From: ki7mn@dancris.com
To: "Ken Hanks" <kennfd@ibm.net>
Cc: qrp-1@Lehigh.EDU
Subject: [1057] Re: Internet Access Charges
Message-ID: <199801160149.SAA10546@user2.dancris.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 06:45 PM 1/15/98 -0500, you wrote:

>My local phone company, Southern New England Telephone, sent notice that the
>surcharge on the second phone line was going from \$3.50 to \$5.00. No
>mention of computer or the internet. This is in addition to the \$13.50 per
>month basic rate for the line.

>

>I think that the local and regional phone companies all missed the boat on
>the internet. Only recently are they upgrading their systems to handle the
>traffic. The telcos never anticipated people using the phone for hours for

>internet connections.

>

>Just MHO

Now this one is from the access charge reform. We have all paid for access to the public network for some time. This year, there is an increase. The basic charge for one line, either business or residential, does not change, but the second line for a residence goes up from \$3.50 to \$5.00, and the second, and each subsequent, line for businesses goes to \$2.75 per line.

This is called the Pre-subscribed Interstate Carrier Charge, and, if you have not selected a carrier, your local operating company will be charging you. If you have selected a carrier, that carrier will be charged, by your local company, the same charge. Of course, this will all be passed on to us.

Our Federal guvmint at work.

72,73

Bob KI7MN Norcal 1228, QRP-L 271, ARCI 8918, CQC 274, AKQRP 30

<http://www.dancris.com/~ki7mn>

Date: Thu, 15 Jan 1998 21:01:22 EST
From: ARDUJENSKI <ARDUJENSKI@aol.com>
To: qrp-l@Lehigh.EDU, BuckPD@corning.com
Subject: [1058] N/T+ FOX SUPER EARS!
Message-ID: <88a6e66d.34bebf74@aol.com>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Preston,

You have super ears. Not only did you get me at with a "full pint" (5W) you really surprised me when you came right back with only one watt (1 W). Lot of stations around you. You are doing a great job...a 559 both times for you. I'll be looking for you next time, too.

Thanks...Alan KB7MBI

(Glad to be ur first WA also)

Date: Thu, 15 Jan 1998 18:16:44 -0800 (PST)
From: Doug Faunt N6TQS +1-510-655-8604 <faunt@netcom.com>
To: nestoji@home.com
Cc: qrp-l@Lehigh.EDU
Subject: [1059] Re: [995] battery query

Message-ID: <199801160216.SAA12069@netcom2.netcom.com>

I bought a Ray-O-Vac charger with the intent of modifying it to run from 12vdc. Haven't gotten to it yet, I'm still testing that charger in the house, but the internal voltages look like it should work.

These cells REALLY need to be charged individually.

As to as how far you can discharge your auto battery, it all depends.... How cold is it, how big is your battery, how big is your engine, etc?

I have a two battery setup in my pickup. They charge together, through a relay, but the radios run from the add-on if the engine isn't running. The starter normally just runs from the engine battery, but the add-on can be used to help start, using a switch in the cab, if desireable.

73, doug

Date: Thu, 15 Jan 1998 21:18:02 -0500
From: Fred Lesnick <flesnick@Quetico.tbaytel.net>
To: qrp-1@Lehigh.EDU
Subject: [1060] Old QRP Articals
Message-ID: <34BEC35A.127B@tbaytel.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Have been collecting ham magazines for a number of years. Have almost every issue in CQ, QST, & 73 from 1980 and up. Also have qst from 1945 to 1970. Thinking of going through these magazines and indexing and logging all the QRP and related info for all to see in case there may be a rig that someone would like to build, or the accessories for such rigs. Also collect the British Practical Wireless and Ham Radio mags.

73 FRED
FISTS 2337
GQRP 7560

Date: Thu, 15 Jan 1998 18:30:19 -0800

From: "Frank Grigaliunas" <fgrig@iea.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [1061] Dan's update and a cry for help
Message-ID: <199801160234.SAA10979@comtch.iea.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

I have been among those wondering when my order from Dan's Small Parts would arrive, and yesterday it did, just about a month after I made the order. Given that Missoula is at most only a couple days' away by USPS, most of the time must have been taken in Dan trying to catch up with that backlog. I'm happy with the quality and service compared to the price, and I'm sure I'll order from Dan's again in the future when the need arises.

On the other hand, I'm a raw novice, having only built so far an Emtech transceiver. For that project, Roy Gregson walked me through step by step in the instructions and then actually did the alignment on the finished unit for me.

By contrast, Dan's kit of the Roy's antenna tuner consists of a bag of parts and three photocopied pages from the winter 95 issue of Hambrew. Now, I'm sure this is more than enough for some of you old pros, but I've got a few questions, and I'd appreciate any help you could provide. If anybody has built this tuner or is familiar with it, I certainly could use your help. If I'm not making myself clear in the questions that follow, let me know, and I'll follow up off-list with explanations, scanned photos, phone calls, or whatever is needed.

Here's my questions:

1. The inductor coil (T1) has 16 turns, but the rotary switch has 12 positions. Since I'm obviously not going to make one tap for every turn, is there a preferred method of deciding where to make the taps?
2. The output to the radio feeds from 4 turns on the same T1 coil. Are these turns all made in a bunch separate from the tapped turns, or are both sets of turns spaced evenly around the circumference of the toroid?
3. From my novice's understanding of SWR, I need to know both the forward power and the reflected power, usually indicated by a cross-needle meter or by a single-needle meter with a for/ref switch. My kit has a single-needle meter, but no switch. What do I do?
4. So far, I've been working my transceiver directly to a dipole cut to be resonant at 7125 KHz, the center of my novice band. From reading the Hambrew article, I get the impression this tuner isn't appropriate for use with dipoles. When I get this all done, am I going to have to string up a

new antenna to go with it?

Once I get these questions answered, I'm sure I'll have twice as many new ones, but I do appreciate anything anybody could do to help. If, on the other hand, you want to complain about how the whole hobby is going to hell in a handbasket because they're licensing people who don't know the first thing about how their equipment works, I would prefer that you don't contact me. Maybe you could contact Marcus Leatham instead.

And besides, I was never a no-code tech and never will be (not that there's anything wrong with that); I got into this hobby using morse in the HF bands and intend to continue that way, only faster and with more bands to choose from.

Thanks a lot,
--Frank, KC7YYR

Frank Grigaliunas, W. 1816 Dean, Spokane, WA 99201
fgrig@iea.com --*-- (509) 326-7147 --*-- <http://www.iea.com/~fgrig/>
"The Internet doesn't annoy people. People annoy people"

Date: Thu, 15 Jan 1998 21:08:04 EST
From: kt3a@juno.com
To: ku7y@sage.dri.edu
Cc: qrp-l@Lehigh.EDU
Subject: [1062] Natural Filtering
Message-ID: <19980115.205824.5415.4.kt3a@juno.com>

Hi Ron!

I read your post to qrp-l about the youngsters hearing more signals than you did. Wow, something to look forward to in later years, a natural filter!
I laughed pretty hard and enjoyed that one. I do have a ringing in my left ear.
It is about 10khz. Picked it up at the firing range one day. So, I won't laugh too hard.

This also reminded me of the OFs who sit in on some of my meetings or classes with the digital watches that chime with the beeping alarms and never hear them.
Beep, beep, beep, beep, beep, beep, beep.....
and then they wonder why everyone is looking at their watches and the OF too!

Of course, my XYL thinks I have selective hearing now! What's that dear?
Oh, I'm listening for the "Fox". "I don't hear a fox, I hear beeping!"

Cameron C.R. Bailey <>< KT3A, QRP-L #7
QRP-ARCI Board of Directors Member
QRP Society of Central Pennsylvania
Mount Wolf, PA
kt3a@juno.com

Date: Thu, 15 Jan 1998 21:44:00
From: Roger Braker <msebrakr@telepath.com>
To: qrp-l@Lehigh.EDU
Subject: [1063] telephone and internet
Message-ID: <3.0.1.16.19980115214400.3f1f0218@telepath.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Guys,
I am confused about this second phone going from \$3.50 to \$5.00 line
business. Is all you pay for a second line \$5.00? Where I live(OKC, OK) a
scond line costs just as much as the first line which is about \$17.00.
Maybe we're gettin cheated down here?? TNX

73,
Arnold kd5ckh

Date: Thu, 15 Jan 1998 17:47:02 -0800
From: amarriot@Direct.CA (Albert Daniel Marriott)
To: qrp-l@Lehigh.EDU
Subject: [1064] FS: OHR 100A (30mtrs) unbuilt
Message-ID: <E0xt1nE-0004MU-00@edam.direct.ca>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi,

For Sale: OHR 100A 30 meters
\$65 US dollars plus buyer pays shipping from BC.
This is in *kit* form, new in box as it came to me.

Let me know if you are interested.

Dan VE7CTN

amarriot@direct.ca

Date: Fri, 16 Jan 1998 02:51:22 GMT
From: mwattcpa@earthlink.net (Marty Watt)
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [1065] Re: Compact Loop Antenna's (DCTL)
Message-ID: <34c0bbde.376348050@mail.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable

On 15 Jan 1998 12:34 EST, "Michael Babineau" <babineau@nortel.ca> wrote:

>Hi :
>
>I got a number of responses to my posting last week regarding=20
>DCTL loops.
>I apologize for leading people astray. I got the right month=20
>and year for the magazine issue but the wrong magazine!
>
>The correct reference is :
>
>"Roll Your Own Compact 80 Meter Wire Loop"
>Jim McLeLLand WA6QBU
>CQ Magazine, July 1994
>Pages 44-46

Anybody have this information on the Web, or another easily attainable =
source?

I didn't take CQ in 1994, but I'd love to see this article (or at least =
the
"how-to" information.

I'm looking for a broadband, compact antenna that will work with a coax =
input
(the automatic tuner won't take balanced line). This antenna seems to =
have
excellent potential.

--

72 es 73 de Marty, KM7W

=46ranklin, Tennessee <http://home.earthlink.net/~mwattcpa> =
=20
NorCal #2031 -- ARCI #7514 -- QRP-L #0953 -- AK/QRP #098 -- Grid EM65

Date: Thu, 15 Jan 98 19:56:38 MST
From: af852@rgfn.epcc.Edu (William R Colbert)
To: qrp-l@Lehigh.EDU
Subject: [1066] Re: GQRP - Good Webb Site Antenna's
Message-ID: <9801160256.AA01715@rgfn.epcc.Edu>

re: John G3PT0's posting of the archive website - excellent site
but the url should be:

<http://www.qsl.net/~wd8rif/archives.htm>

I think it and the map site are well worth visiting. and marking.
73 Ray

--
Ray Colbert, W5XE
OOTC 3618, SOWP 1064M
El Paso, Tx (Far West Texas)
(also: v31xe@dzdn.com)

Date: Thu, 15 Jan 1998 21:59:55 EST
From: Shephed <Shephed@aol.com>
To: qrp-l@Lehigh.EDU
Subject: [1067] N/T+ Fox
Message-ID: <303a2d20.34becd2d@aol.com>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Preston,
I had you into Ohio at a 449 for a while. Heard you finish with N0EVZ and was
ready to call you when I was blasted with QRM from a W1 call.

I'll get ya next time. :-)

72,73
Dan,N8VZU
QRP-L #1404

Date: Fri, 16 Jan 1998 03:08:06 GMT
From: mwattcpa@earthlink.net (Marty Watt)
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [1068] Re: telephone and internet
Message-ID: <34c2cc25.380516029@mail.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable

On Thu, 15 Jan 1998 21:44:00, Roger Braker <msebrakr@telepath.com> wrote:

>Hi Guys,
>I am confused about this second phone going from \$3.50 to \$5.00 line
>business. Is all you pay for a second line \$5.00? Where I live(OKC, =
OK) a
>scnd line costs just as much as the first line which is about \$17.00.
>Maybe we're gettin cheated down here?? TNX

Not quite. There is a FCC-mandated surcharge on every line, for the
interconnect to the LD lines. The basic residential line (here in middle
Tennessee, under BellSouth) is \$12.15 per month. The surcharge is \$3.50,=
and
then comes the other "tack ons" like tax, touch-tone, E-911 service, and =
the
options.

Now, under the new rules, BellSouth is allowed to increase the surcharge =
to
\$5.00, but only for second and subsequent lines. I have two lines, my =
second
line surcharge for "Federal Communications Commission Toll Access Charge"=
will
now be \$5.00 instead of \$3.50.

Net: my bill goes up \$1.50, plus tax, plus any "ordinary" rate increases=
for
local service approved by the Tennessee Public Service Commission.

=46or the record: The current monthly charge for two lines (no features,=
no tax
included) is \$32.58 per month (roughly \$16.29 per month per line). The =

total
will go to \$34.08 per month (\$16.29 for the first line, \$17.79 for the =
second
line).

Hope this clarifies the issue. (And I hope it's the same nationally!)

--

72 es 73 de Marty, KM7W

=46ranklin, Tennessee <http://home.earthlink.net/~mwattcpa> =
=20
NorCal #2031 -- ARCI #7514 -- QRP-L #0953 -- AK/QRP #098 -- Grid EM65

Date: Thu, 15 Jan 1998 22:06:22 EST
From: Shepherd <Shepherd@aol.com>
To: qrp-l@Lehigh.EDU
Subject: [1069] N/T+ Fox for 1/19/98
Message-ID: <b0912522.34beceb0@aol.com>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Hello all,
My name is Dan Shepherd, N8VZU from Kettering, Oh.
I will be the Fox on 1/19/98 from 0000 to 0100Z (Sunday 1900 EST)
I will work around 7.140 +/- MHz
Rig is a Yaesu FT-101 at 5 W into a home brew vertical.

This is my second time as a Fox.

I will QSL to all.
Thanks, and 72
Dan, N8VZU
QRP-L #1404

Date: Thu, 15 Jan 1998 21:16:05 -0600
From: Ed Manuel <n5em@flash.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [1070] Re: telephone and internet
Message-ID: <3.0.5.32.19980115211605.00882920@pop.flash.net>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

And I sure hope this thread is about to die.

>
>Hope this clarifies the issue. (And I hope it's the same nationally!)
>
>
>--
>72 es 73 de Marty, KM7W
>

>Franklin, Tennessee <http://home.earthlink.net/~mwattcpa>
>NorCal #2031 -- ARCI #7514 -- QRP-L #0953 -- AK/QRP #098 -- Grid EM65
>
>
>
Ed Manuel, N5EM
n5em@amsat.org
n5em@flash.net

Date: Thu, 15 Jan 1998 22:35:18 -0500 (EST)
From: Mike Czuhajewski <wa8mcq@u1.abs.net>
To: qrp forum <qrp-l@Lehigh.EDU>
Subject: [1071] Defective lighter needed
Message-ID: <Pine.BSI.3.96.980115222959.11622B-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Trust me, this is QRP related. Ask N7KT; he gave me the idea with a recent post.

Does anyone have an old metal Zippo lighter that doesn't work and don't want to get it fixed, and is willing to part with it for the cost of postage? I might even throw in an SBL-1 mixer as payment.

After a box of fuses, a lighter will be a therapy job :-) If I can pull it off, everything will be clear at Dayton.

73 and Queue Our Pea DE WA8MCQ wa8mcq@abs.net

Date: Thu, 15 Jan 1998 19:50:28 -0800
From: Monte Stark <ku7y@sage.dri.edu>
To: wa8mcq@u1.abs.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [1072] Re: Defective lighter needed
Message-ID: <34BED904.1178@sage.dri.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hmmmmm,

OK, let me see if I have this right.....you gonna build a rig in the Bic lighter....then the next logical step is to put a thermal generator in the lid. Flick the Bic, the flame heats the thermal generator which in turn powers the rig!

Hey Mike, that's a good idea.....all seems easy except for soldering under all that lighter fluid.... :-)

cul,

--

73, Ron, KU7Y

NRA Life-----Ex W6JX0, DL4RF, N7CRV-----SOWP #5545-M
QRP QRCI #8829----NorCal #330----QRP-L #17-----ARS #49
AR QRP #150-----DM09cg-----New Washoe City, NV

Date: Thu, 15 Jan 1998 22:57:10 -0500 (EST)
From: Mike Duke <K5xu@cris.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [1073] KENWOOD TS-570V?
Message-ID: <Pine.SUN.3.96.980115225336.2164I-1000000@galileo.cris.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Has anyone here heard of a 20 watt model of the 570 series known as the TS-570V?

I've not seen anything in print about it, but wish I had before I bought the big one (570s).

Before I get swamped; yes, I know; it drops to 5 watts quite nicely! Just

curious about one that's born as a low power rig.

72/73

Mike

AMATEUR RADIO STATION K 5 X U
Jackson, Mississippi

Date: Thu, 15 Jan 1998 23:06:09 -0500 (EST)
From: Mike Duke <K5xu@cris.com>
To: JUNIUS B FOX <w5hir@gte.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [1074] Re: 6 meter operation
Message-ID: <Pine.SUN.3.96.980115230306.2164K-1000000@galileo.cris.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Another good indication of activity is the list 6m which is a majordomo list at qth.net.

It won't feed you 100 messages a day like this list, but the folks there are just as nice and enthusiastic as the qrp-l gang.

72/73,

Mike

AMATEUR RADIO STATION K 5 X U
Jackson, Mississippi

Date: Thu, 15 Jan 1998 23:02:07 EST
From: WA4DAI <WA4DAI@aol.com>
To: qrp-l@Lehigh.EDU
Subject: [1075] Foxed Again!!
Message-ID: <303a19d0.34bedbc1@aol.com>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Hello fellow fox hunters!!

Well tonite 1/15/1-16 utc Heard the fox well here in Central Va for about the

first 35 minutes and then ----- never to be heard again!! Heard a NC station

(Watson) work the foxey one with 5w (didnt catch his call). Well just have to try harder next week!! Lots of great signals on the band believe WB0T had all beat to this QTH tonite..

72/73 A. C. WA4DAI

Date: Thu, 15 Jan 1998 23:12:25 -0500
From: Ed Tanton <n4xy@bellsouth.net>
To: K5xu@cris.com
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [1076] Re: KENWOOD TS-570V?
Message-ID: <3.0.1.32.19980115231225.00e2fd90@mail.atl.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Mike... Perhaps it was/is a non-export model, made for the Japanese market.

At 10:57 PM 1/15/98 -0500, Mike Duke wrote:

>Has anyone here heard of a 20 watt model of the 570 series known as the
>TS-570V?

>

>

73

Ed Tanton N4XY EMAIL: n4xy@bellsouth.net
189 Pioneer Trail
Marietta, GA 30068-3466 TEL: (770)579-3933 V/MBX/FAX

INTERESTS: QRP BoatAnchors Test Equipment Photography
CW: 99.9% Mercury Paddle # 0214 QRP to 150W: 95%

~~~~~  
"Think you can, think you can't: either way you're right!" Henry Ford  
~~~~~

Date: Thu, 15 Jan 1998 22:44:55 -0500
From: "Bob Kellogg" <ae4ic@nr.infi.net>
To: <rodriguez@jet.es>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [1077] Re: RG174 versus balanced feeder
Message-ID: <199801160424.XAA30603@mailhost.infi.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Goran,

> With backpacking length of feeder (25 or so) RG174 will have 1 dB of loss
> at 14 MHz when SWR <=2. A balanced feeder will be very much more
efficient,
> but needs a tuner. What would the system loss of balanced line + tuner
be?

If the tuner is designed for the particular antenna being used the loss may
be .5 or less. If you use a good general purpose tuner the loss could be
in the range of 1 db or more. These are average figures, and any
particular antenna/frequency/tuner combination could be better or worse.
Some commercial tuners will indicate a good match and lose 90% of your
signal under certain conditions.

CUL,
Bob Kellogg, AE4IC, Greensboro, NC
Probably, but not necessarily. -- Benny Hill

Date: Thu, 15 Jan 1998 21:33:52 -0700
From: "Karl B. Staddon" <ve6kbs@AGT.NET>
To: bkassel@dancris.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1078] Re: QRP Tuners
Message-ID: <34BEE330.2F70@agt.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Is there a website with info on the zm-1 or zm-2 tuners? They sound like
the scratch I might need for my itch.

CHEERS DE VE6KBS, KARL, CALGARY, AB.

Brian Kassel wrote:

>
> n4js@pobox.com wrote:
> >
> > On 13-Jan-98 "W. D. (Doc) Lindsey" typed:
> > >David:
> > >

> > >I really like the ZM-1 from Emtech....now superseded by the ZM-2. The ZM-2
> > >contains a "visual SWR indicator" (a la Dan Tayloe N7VE) and the whole
> > >things takes no power to run (eg, no batteries). Works just great. Is
> > >fast, light weight, portable, effecient--everything we need when on the
> > >road.
> >
> > Especially if you use open wire/ladder line, the ZM-1/ZM-2 can't be beat, and
> > the price is VERY reasonable (\$49, if I remember right). I built one of the
> > last of the ZM-1's and really like it.
>
> I very much agree with David and John. I also have 2 ZM-1's, and always
> get
> great results. It has done very well in all lab tests that I have seen.
> The ZM-2 with the added SWR bridge has got to be a real hit. I have
> built
> several of the N7VE SWR bridge units, and the simplicity and
> effectiveness
> can't be beat.
>
> Brian Kassel W5VB0
> ARCI # 3623
> Phoenix AZ ScQRPions

Date: Thu, 15 Jan 1998 22:41:46 -0600
From: Tim Ahrens <tahrens@inetport.com>
To: qrp-l@Lehigh.EDU
Subject: [1079] FOX - my what large ears you have!
Message-ID: <34BEE509.380C7A6B@inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Randy - man-o-man, I didn't think I had a chance... heard
you in there, probably more like 229 than the 449 I gave you...
went ahead & sent a couple of shots....
couldn't believe it when the pack died down & you gave the
exchange, then heard my call... gotta have good ears & concentration
to have gotten that!

Thanks for the fun!

Tim W5FN

Date: Thu, 15 Jan 1998 22:44:35 -0600
From: Tim Ahrens <tahrens@inetport.com>
To: qrp-1@Lehigh.EDU
Subject: [1080] FYBO - New Rigs anyone?
Message-ID: <34BEE5B3.7FCD337@inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Anybody gonna take their SGC2020 to the field? It looks
mil-spec, gotta see if it really works in the cold!

Guess it depends upon SGC, eh?!

cu

Tim W5FN... mebbe change the phonetics to Frozen Nuckles.

(i know that's not how you spell it)!

Date: Thu, 15 Jan 1998 23:52:49 EST
From: WB0NZM <WB0NZM@aol.com>
To: qrp-1@Lehigh.EDU
Subject: [1081] Re: Internet Access Charges
Message-ID: <b298c6f1.34bee7a3@aol.com>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

In a message dated 98-01-15 14:02:59 EST, you write:

<< The voice communications is done by the "end user." >>

This is NOT true, in more and more cases. There ARE ISP's that are acting as
"Long Distance Service Providers", using the internet as a 'backbone', to tie
switches together. This is, in effect, providing long distance telephone
service in competition with the 'real' long distance service providers.

John

Date: Thu, 15 Jan 1998 23:49:44 EST
From: WBONZM <WBONZM@aol.com>
To: qrp-1@Lehigh.EDU
Subject: [1082] Re: Internet Access Charges
Message-ID: <492eddf1.34bee6ea@aol.com>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

In a message dated 98-01-15 12:19:04 EST, you write:

<< aving NOT succeeded in being able to charge the ISP folks (for at least the past two years) they are trying to say that ISP's provide voice communication which is NOT TRUE -- the programs that are used to chat voice to voice via the Internet are not on the ISP's systems but on the systems of the users. >>

ISP's do, in fact, operate commercial voice-over-internet systems, in some cases, and the manufacturers of these systems are encouraging more of such operation. Thus, in effect, ISP's are becoming "Long Distance Service Providers", using the internet as the long distance 'backbone'.

John

Date: Thu, 15 Jan 1998 23:55:49 EST
From: WBONZM <WBONZM@aol.com>
To: qrp-1@Lehigh.EDU
Subject: [1083] Re: Internet Access Charges
Message-ID: <3afe2872.34bee858@aol.com>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

In a message dated 98-01-15 17:51:51 EST, you write:

<< Starting next month,my cell phone provider is adding 55 cents/ month onto the bill in order to provide money for schools to be funded for internet access. >>

That money will be paid to the FCC, as part of the "Universal Service Fund".

John

Date: Fri, 16 Jan 1998 00:03:42 EST

From: MSU1972 <MSU1972@aol.com>
To: qrp-1@Lehigh.EDU
Subject: [1084] Tuners?
Message-ID: <37269fdc.34beea31@aol.com>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

I currently own an MFJ-QRP tuner - the one which matches the QRP CW units. It sounds like this groups tuner of choice is the ZM-2. How does it differ from the MFJ - size, etc (I've never seen a ZM-2) and would there be an advantage to get the ZM-2 rather than use the MFJ. [Will use the 40A and SST at parks in roadside areas for fun, one the road, but probably not backpacking.]
David

Date: Fri, 16 Jan 1998 00:20:06 -0600 (CST)
From: Adrian Weiss <aweiss@sunflowr.usd.edu>
To: Bob Kellogg <ae4ic@nr.infi.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1085] Re: Bright Idea Award #1; RG174U; Balun loss; c.w. tone
Message-ID: <Pine.SOL.3.94.980115234142.16045D-100000@sunburst>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Bob & gang:

On Thu, 15 Jan 1998, Bob Kellogg wrote:

> Subject: Re: Bright Idea Award #1; RG174U; Balun loss; c.w. tone
>
> Adrian,
>
> I've been doing quite a bit of tuner testing using the method described by
> Frank Witt in his 1995 QST articles. So, naturally, I have some comments
> about your balun loss example.
>
> You said:
> > For measurements, a calibrated wattmeter monitored power fed into the
> > tuners, and a simple field-strength meter connected to a pick-up wire
> > outside monitored the field strength. Power into the tuners was kept
> > constant. A reading was taken with tuner A peaked, then a reading for
> > tuner B. Then the power to tuner A was backed off until it reached the
> > f.s. reading for tuner B. Then the difference in dB was calculated.
> > The results were interesting: loss in tuner B attributable to the balun,
> > with a 1:1 SWR obtained on all bands, was:
> > 80m = 2.dB; 40m = 1dB; 20m = 1.7dB; 15m = 6.6dB
> > I was unable to reach a low SWR with tuner A on 40m, so the 1dB would

> have
> > been slight worse since this represents output from tuner A at a 2:1 SWR.

>
> IMHO this is a valid test, and certainly does indicate relative efficiency.
> It is a good way to get a rough idea of tuner performance. There is one
> limitation, and that is that for each band the tuner is being tested for
> just one impedance situation -- the one presented by your antenna. If this
> is the antenna you intend to use, of course, that's fine. I'm not sure the
> test would be a valid general comparison between the two tuners. It was
> certainly a valid test with your antenna.

>
You are perfectly correct Bob. I was only interested in my system, not in measuring tuners in general. And of course, one cannot generalise to all situations in which these two tuners would be options. But I suspect that the balun loss will always be there but with differing magnitude depending, as you note, upon the impedance presented by the system

> > Now, the choice on 15m is obvious. It illustrates the kind of loss that
> > can occur in the balun assisted tuner. I won't speculate on why it
> > occurred at this magnitude on 15m. I didn't check 10m.

>
> Someone else might make the identical test with their antenna and get
> considerably different results. Instead of 15M being the poorest band, it
> might be 40M, for example. I'd judge that the reason test results were so
> bad for you on 15M is that your antenna presented an impedance that was
> well out of the range for your balun on that band.

I absolutely agree with you except that I would bet a couple of 2n2222's that the balun-tuner will be the loser in any situation where it is compared to a decent balanced tuner with the right combination of taps.

Many years ago when I was using an 8JK system, George Bonadio W2WLR (ham radio, 1970, pp 28-31) published a piece about conjugate matching tuners. His main point: in order to eliminate loss from circulating currents in the tuner, one had to feed the line across a lumped L/C circuit designed to handle the specific complex impedance presented at the end of the line. So, I did what he advised and it worked quite well, but I compared his tuner to nothing else. So, who knows?

I think maybe I'll just whip up a lumped L/C unit here and include it in the tests. Boy -- isn't QRP fun? What QRO guy is going to go thru all this trouble to see if he is losing 52% in the tuner? WE QRP'rs have tghe best of all possible worlds -- except that it includes QRO's QRM'ing us.

>
> > At any rate, the choice is between ease of bandswitching with the
> > balun-assisted, or the relative gain that occurs along with the messing

> > around adjusting taps with tuner A. I go for the gain myself.
>
> Yep.
>
> I guess what I was saying about tuner testing is obvious. A simple test is
> to use fixed power, then hook a wattmeter, the tuner and a dummy load in
> series. Measure the power. Then put the wattmeter on the dummy load side
> of the tuner and measure the power again. The difference in power reading
> indicates tuner/balun loss. This method has the same limitation as above,
> but worse. The measurements are being made at 50 ohms impedance. (why use
> a tuner at all if the antenna system presents 50 ohm impedance?) OTOH, If
> there are losses indicated with a 50 ohm impedance, we can expect much
> worse with the typical antenna!

True -- but I suppose, in theory, a poorly designed tuner could exhibit loss in the 50-50-Ohm situation, so, a perfect 50-Ohm line termination would still suffer. But who still believes that such a thing exists?

Incidentally, I might note in passing that, when a 50-Ohm coax is terminated in a dipole, it is automatically a 1.4:1 SWR situation with a complex impedance. Raising and lowering the antenna or trimming the coax can get you down to 1:1, but this is illusory. Moxon shows a variant of the usual calculated graph of dipole impedance vs height but puts in a dotted line under 1/4-wave height to show what actually happens in real antennas. Due to ground-coupling and power absorption in the dirt, the actual measurable impedance of a low dipole stays fairly constant around 45-50-Ohms although it should be dropping with the antenna height.

Also, while in passing, I ought to comment about a misconception about inserting a balun between a length of balanced line and a coax run to the shack. I think this arrangement came about from the frequently seen G5RV, where, given the specific length of the legs of the antenna, and given length of balanced line drops from the antenna, is connected to a run of 50-Ohm coax of any length, which then completes the run to the shack. Now, the length of the balanced line, given the impedance of the antenna, is selected to provide an impedance transformation down to the vicinity of 50-Ohms. Use any other length of line with that antenna, and it won't be a 50-Ohm termination. In reality, the balanced line dropping from the G5RV is an impedance transformer doubling as the feedline. It is an integral part of the antenna system, just as an extra element on a yagi is. The coax is actually feeding a system terminated in the balun.

However, and this is the main point, it only works when (1) when the antenna feedpoint impedance is known and (2) the length of balanced line which will transform that to 50-Ohms is calculated (or determined with a Smith Chart) . If these two conditions aren't met, then the (usually random, selected for some reason other than electrical length) run of balanced line terminates in an unknown impedance which the

balun then transforms down to another unknown impedance to which is connected coax with a $Z_c = 50\text{-}\Omega$ s. I'll bet 2 dozen 2N2222's that the coax will be running a high SWR -- usually.

Now, where does a balun belong in the antenna system if used at all? Pick a point where something unbalanced has to be connected to something balanced -- a dipole is a balanced antenna, coax is unbalanced line. Of course, for a half-wave dipole, a 1:1 balun is required. The insertion point for a balun thus is at the antenna terminals. Why even take such a step? To eliminate radiation from the coax which will severely distort the radiation pattern. Back in the April 1980 QST, Bruce Eggars WA9NEW published the results of his testing of the effect of a balun at the feedpoint in the r.f. anechoic chamber (non-reflective, hence only the radiation pattern from the antenna is measured, as if in free space) at U. N. Carolina. All one has to do is glance at the two cases to see that hooking the coax directly to a balanced dipole produces the same kind of radiation pattern that is traced by those whirly-giggy July 4th fire-works. Insertion of the balun produces a not-quite perfect, but nearly so figure eight. Interesting that we never even think of putting a balun where it belongs!

Thanks for your comments Bob.

Incidentally, I was going to try Witt's measurement technique, but didn't have time to build the geometric resistance boxes. Obviously you did and have played with them.

I'd encourage you to write up your results for here or the QQ and QRPP, or all. I for one am dying to find out what you came up with.

Anybody else out there interested?

73, Ade W0RSP

Oh yes, doing these posting in the wee hours isn't the greatest idea -- I forgot to put in my promised comment on RG174U. Simple: it's a tradeoff. I used RG174U out camping because of its convenience -- did a tiny surface-mount tuner which went along with the Viking-5 (see HISTORY OF QRP) with a toroid inductance and trimmer capacitors, all fine-tuned with the antenna up at home. Worked well. But even though the run of RG174U was only 35-ft, I wonder if now I wouldn't opt out for a 35-ft hank of small twinlead plus a tuner. The longer I do this QRP thing, the more I value a dB or two.

>
> 72/73 and CUL,

> Bob Kellogg, AE4IC, Greensboro, NC
> Prolably, but not nececelery. -- Benny Hill
>
>
>

Date: Tue, 13 Jan 1998 16:35:00 -0600
From: Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
To: qrp-1@Lehigh.EDU
Subject: [1086] Re: Fox AB7TK
Message-ID: <M2359986.001.v5u60.1.980116062517Z.CC-MAIL*/OU=LMPCC4/OU=ILBB/
PRMD=MOT/ADMD=MOT/C=US/@MHS>

Randy, that was like a QSO with the Galactic Fox. You were just a whisper here in the SF Bay area, and that was only with about 15 minutes left in your run. First hour and 45 minutes no sign of you at all, though I could hear occasional hunters. Even they were weak and few.

Didn't look promising, so I turned up the speaker and spent my time scavenging more devices off my modem boards.

Finally heard you come up above the noise to where it was worth while taking a shot at you. I'd say the 339 reports we exchanged were exceedingly charitable. Perhaps fox hunting will lead to a whole new emission designator, MGN (Modulated Galactic Noise).

After we worked, I heard you trying for K1MG and W03B. Couldn't tell if you connected or not. Hope so.

Later you briefly came up to 559, thundering by comparison to earlier. Called to tell you that, and you promptly QSBed back into your galactic fox hole.

I was surprised at how hard it was to hear you. Idaho has been easy in the past, especially with my Idaho Antenna (pat. pending). Sure had to work for it tonight.

Anyway, 01' Kenwood and I are just happy that we were able to connect.

72, and will look forward to seeing your log.

Bob N6WG and 01' Kenwood

Date: Fri, 16 Jan 1998 00:21:29 -0600
From: "Harley L. Miller" <hmliller@sound.net>
To: qrp-l@Lehigh.EDU
Subject: [1087] Re: best tone for copying CW
Message-ID: <34BEFC69.FFB@sound.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I agree with Marchall Emm about matching the offset of the rig. I made a tuned speaker (after umpty cut 'n tries) that matched the center frequency of the LM 3900 audio filter in my HW-8. Then I replaced C55, the offset cap, with an NPO variable cap and set the offset to match the filter and speaker. This was about 730 cps. The little rig really digs signals out of the mud now, so well that I can turn down both the RF and AUD gain and cut out some more crud that way. Quite often, I can hear only one signal, even in a crowded band. Am now going to do the same with my FT101B.

Harley L. Miller hmliller@sound.net
WB0ROQ QRP-L #373

Date: Fri, 16 Jan 1998 07:59:22 GMT
From: n4js@pobox.com (John Sielke)
To: Bob_Tellefsen-CNSE97@email.mot.com, qrp-l@Lehigh.EDU
Subject: [1088] Re: Fox AB7TK
Message-ID: <34bf1311.15295022@mail.cyberenet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable

On Tue, 13 Jan 1998 16:35:00 -0600, you typed:

>I was surprised at how hard it was to hear you. Idaho has been easy in =
the=20
>past, especially with my Idaho Antenna (pat. pending). Sure had to work=
for it=20
>tonight.

Is an Idaho Antenna one you put up with a spud gun??=20
- - - - =20

/ \ / \ / \ / \ John L. Sielke n4js@pobox.com n4js@qsl.net
(N)(4)(J)(S) NJ Grid:FM29LN <http://www.qsl.net/n4js>
_/ _/ _/ _/ NJ-QRP #57 QRP-L #884 QRP-ARCI ARQrp #86
G-QRP #9544 NorCal #1989 CQC AKQRP QCWA FISTS #2781

Date: Fri, 16 Jan 1998 07:59:18 +0000
From: Leon Heller <leon@lfheller.demon.co.uk>
To: MelEvansGM6JAG@compuserve.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1089] Re: English before writing, and other matters!
Message-ID: <ekLjvDAWNxv0Ewh+@lfheller.demon.co.uk>
MIME-Version: 1.0

In message <199801151821_MC2-2F76-5AA0@compuserve.com>, Mel Evans
<MelEvansGM6JAG@compuserve.com> writes

>Hi gang,

>

>One of the postings regarding the above came from a ham who was, like
>myself, a professional writer, published in general interest magazines,
>feature newspaper articles and in my case specialist ham radio and
>caravanning magazines.

[deleted]

Another tip: contact the editor *before* you write the article, and
check that he/she is interested in the topic. I always do this, and
everything I have written for publication has - eventually - been
published.

Leon

--

Leon Heller: leon@lfheller.demon.co.uk <http://www.lfheller.demon.co.uk>
Amateur Radio Callsign G1HSM Tel: +44 (0) 118 947 1424
See <http://www.lfheller.demon.co.uk/dds.htm> for details of my AD9850
DDS system - schematic and software.

Date: Fri, 16 Jan 1998 06:21:26 -0500 (EST)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: Mike Czuhajewski <wa8mcq@u1.abs.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [1090] Re: Defective lighter needed
Message-ID: <Pine.SOL.3.94.980116061718.22729A-100000@moe>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> Does anyone have an old metal Zippo lighter that doesn't work and don't
> want to get it fixed, and is willing to part with it for the cost of
> postage? I might even throw in an SBL-1 mixer as payment.
Although the Zippo case idea has its attractions, please note 2 items:

1. The Zippo shuts tightly because of a spring loaded "blob" attached to the insert. Without the insert, the top is very floppy.
2. There is a secondary collectors market in Zippos. Be sure your Zippo is in fact not worth anything significant before committing it to an adaptive use.

OK, a third fact:

3. Besides the standard size Zippo, they have also made some leaner ladies Zippos. subject to facts 1. and 2. above, the real challenge would be fitting everything in the smaller size case.

Given the subject matter, all flames accepted.

-73-

LB, W4RNL

Date: Fri, 16 Jan 1998 04:09:13 -0500
From: wpc@west.net (John Roblin / Whiterook Products Co.)
To: qrp-1@Lehigh.EDU
Subject: [1091] Tuna Tin Two Photo/Webpage!!!
Message-ID: <v01530500b0e4d38e519c@[205.254.241.194]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Attention all Tuna Tin Two Fans!!! After searching frantically throughout the garage, my trusty TT2 popped up. So I grabbed my Apple QuickTake and snapped a photo for all of you to see.

It is now part of the "Joys of QRP" photo section of the Whiterook Products Website, which I hope many of you will visit, enjoy, and perhaps contribute

to.

To see my vintage, *classic* 1976 Tuna Tin Two, go directly to:

<http://www.west.net/~wpc/tunatin2.html>

72, -John WA6KY0

John Roblin WA6KY0
Whiterook Products Company
"Mini-Keys and Other Cool Things!"
<http://www.west.net/~wpc/>

Date: Fri, 16 Jan 1998 08:04:08 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:rfoltz@wsunix.wsu.edu" <rfoltz@wsunix.wsu.edu>, "Doc W.D. Lindsey/
K0EVZ" <70511.3041@compuserve.com>,
QRP-L Discussion Group <QRP-L@Lehigh.EDU>
Subject: [1092] FOX alert
Message-ID: <199801160805_MC2-2F86-A5F0@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Randy:

I concur w/Tim W5FN's comment--you have some great ears. The big challenge here--aside from some very LOUD hunters--was horrendous QSB. One minute you were 579...perfect for a good clear shot. But then you disappeared...and my shot sailed off into the wild blue yonder ;^(.

At 0220 sounded like a whole new bunch of guys had moved in. And there *you* were...darting around. Suddenly the entire pack stopped and looked the other way. Heard you say "Fox"...pulled the trigger = a pelt. All right!

Thanks for the great job last evening. Liked your rhythm and pacing. Also liked your including the hunter's call so everyone could tell for sure. Will be interested in seeing your log.

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqc 414 ARS 311 FISTS 3868 mn-qrp 19
nj-qrp 69 ak/qrp 139 AR QRP 73 HI-QRP 30 ARCI 9398 ARRL
QRP WAS 44/42 DXCC 73/44 Grid EN34 <>< A 1997/98 FOX.

Omni V Corsair I Yaesu 900AT Wilderness Sierra SW-40 49er
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D Matchbox GAP Titan
TNT/2 Windom SLV/W6MMA G5RV Timewave 599zx Auttek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

Date: Fri, 16 Jan 1998 08:09:18 -0500
From: "Dave Rowe" <elim@ime.net>
To: <ve6kbs@AGT.NET>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [1093] Re: QRP Tuners
Message-ID: <005101bd227f5f503cd60\$25c65ad1@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit

Emtech's web page is at:

<http://www.premier1.net/~odalaigh/emtech.htm>

73 dave Kc1di

-----Original Message-----

From: Karl B. Staddon <ve6kbs@AGT.NET>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Thursday, January 15, 1998 11:40 PM
Subject: Re: QRP Tuners

>Is there a website with info on the zm-1 or zm-2 tuners? They sound like
>the scratch I might need for my itch.

>

>CHEERS DE VE6KBS, KARL, CALGARY, AB.

>

>Brian Kassel wrote:

>>

>> n4js@pobox.com wrote:

>> >

>> > On 13-Jan-98 "W. D. (Doc) Lindsey" typed:

>> > >David:

>> > >
>> > >I really like the ZM-1 from Emtech....now superseded by the ZM-2. The ZM-2
>> > >contains a "visual SWR indicator" (a la Dan Tayloe N7VE) and the whole
>> > >things takes no power to run (eg, no batteries). Works just great. Is
>> > >fast, light weight, portable, effecient--everything we need when on the
>> > >road.
>> >
>> > Especially if you use open wire/ladder line, the ZM-1/ZM-2 can't be beat, and
>> > the price is VERY reasonable (\$49, if I remember right). I built one of the
>> > last of the ZM-1's and really like it.
>>
>> I very much agree with David and John. I also have 2 ZM-1's, and always
>> get
>> great results. It has done very well in all lab tests that I have seen.
>> The ZM-2 with the added SWR bridge has got to be a real hit. I have
>> built
>> several of the N7VE SWR bridge units, and the simplicity and
>> effectiveness
>> can't be beat.
>>
>> Brian Kassel W5VB0
>> ARCI # 3623
>> Phoenix AZ ScQRPions
>
>

Date: Fri, 16 Jan 1998 08:15:40 -0500 (EST)
From: jeverhar@camden.lmco.com
To: qrp-1@Lehigh.EDU
Cc: njqrp@njqrp.org
Subject: [1094] Re: What CW tone do you prefer?
Message-ID: <9801161315.AA01810@train11.CAMDEN.LMCO.COM>

Gang,

Gads what an analytical group! It is very interesting to hear you all put forth intriguing ideas about what the ideal pitch should be.

I discovered years ago that I'm different (ok, ok, pipe down - no sarcastic replies!). Back during my novice days of the 60's when WW-II

surplus was waning there were several so-called range filters available at low cost to impecunious teenagers. They were sharp passive audio filters that you could put between a receiver's output and your headphones. They featured either a resonance originally intended to either enhance or notch out aeronautical range beacon tones at roughly 1 kHz. They were used by hams to help with qrm in unslective surplus receivers.

Well for me that was torture! Anything with that high a pitch was annoying noise! I did best with a tone much lower in frequency. As I recall I *could* hear tones better at 1 kHz, but copying cw required a pitch near 500-600 Hz.

That really became apparent when I signed on as a logger for one of the really sharp ops at Field Day. Things were rough at first until we realized that his comfort frequency was much higher than mine. Once we realized this, we adapted to the other's preference. Then after FD we actually measured what worked best for each. His best results were with tones at about 800 Hz, while I enjoyed 600 better.

And as my ears age, I *know* that my comfort frequency has lowered. It is now about 500 Hz. Not that I can't use 700-800, but 500 is better.

My guess is that some young pipsqueak one time decided that 700-800 was best for him and that since *he* was the one designing a commercial rig, it seemed natural to use the tone best suited for him. And like so many things in this world, that set a precedent that we have followed since through inertia! :-)

Bottom line - different strokes for different folks...

72/73,

Joe E., N2CX

Date: Fri, 16 Jan 1998 12:42:44 +0800
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
To: qrp@pandora.lugs.org.sg
Subject: [1095] Re: Preferred CW pitch
Message-ID: <34bee544.pandora@pandora.lugs.org.sg>

Hi,

Ahhh... how interesting. I've seen so many interesting replies and it seems that most actually prefer something below the 800Hz 'standard'.

Another reason I am asking this rather 'subjective' question is precisely because of all the interesting aspects it could be analyzed. Being a 9V1, I am constantly on the DX end of a pileup. When that happens, I find that it is easier to pick out the lower frequencies.

Not only that, I don't know if it's actually true but higher pitched CW seems more 'stressful' than listening to something lower (not too low though). I feel more relaxed at 700 than at 800, for example.

Some have pointed out physiological reasons, others physical. I'll bet there are also psychological reasons for those preferences. Very interesting, all this. Looks like it wasn't a bad question after all :-)

73 de 9V1ZV Daniel

```
--
+-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg |
| 9V1ZV      |                               |
| QRP-L #667 | 9V1ZV@amsat.org               |
+-----+-----+
```

Date: Fri, 16 Jan 1998 08:53:54 -0500
From: "Watson R Gabriel Jr" <wgabriel@duke-energy.com>
To: qrp-l@Lehigh.EDU
Subject: [1096] CW Tone Comments
Message-ID: <8525658E.004A73E0.00@dpcmail.dukepower.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Since everyone seems to be giving their preferences on this subject, I thought I would join the crowd and offer mine.

For reception of good, strong signals, I tend to listen to the lower tones. The frequency? I have no idea - have never even attempted to measure it. Whatever sounds good at the time. And I have tried to get my transmit freq aligned with the sidetone I hear at this most-used point. (Hope it's there! ha!). It's somewhere in the 600-700Hz area I am pretty sure.

When the signal levels get down into the noise, many times I move up in freq and even get quite high (to me) in frequency. For whatever reason - my ears, past EME work, filter/rig/headphones response, etc - it "feels" to me

that the signal gets enhanced when this higher tone gets mixed with background noise. How much I might change just depends on the individual situation. I find I can dig out the meaningful info better. Seems one or two of you mentioned some research or experience like this too.

And I find that on weak sig condix, I "play" with the tuning lots too to find that "sweet spot" at the particular time versus signal.

Still comes down to "each to his own" based on your particular "system" (and you are a part of that system). My suggestion is to try various things and see what works best for you. If there were a magic cure-all, someone would market it and we'd all have one. Of course, many people/vendors have tried to convince us that "their filter" (or whatever) is the missing piece we need.

For what it's worth... Watson/WB4EXW

Date: Fri, 16 Jan 1998 12:51:28 +0800
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
To: qrp@pandora.lugs.org.sg
Subject: [1097] Non-QRP: Need help from TS-570D owners
Message-ID: <34bee750.pandora@pandora.lugs.org.sg>

Hi,

I'd like to correspond with any TS-570D owners concerning identification of chip resistors on the control board. I have no schematics so I can't tell which is which on the board. If you can help, drop me a line. Thanks.

73 de 9V1ZV Daniel

--
+-----+-----+
Daniel Wee	daniel@pandora.lugs.org.sg
9V1ZV	
QRP-L #667	9V1ZV@amsat.org
+-----+-----+

Date: Fri, 16 Jan 1998 09:18:32 -0500
From: Nick Franco <kf2ph@bnl.gov>
To: qrp-1@Lehigh.EDU

Subject: [1098] Dog Sled QRP DXpedition
Message-ID: <34BF6C37.8D2F39C1@bnl.gov>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Gang,

Happy New Year to you all.

My friend Mike - AA2QO and his friend George - KB2 something are hiking into the deep snow covered woods as I write this. They have a few Alaskan Malamutes (sp?) pulling the sleds with their supplies and tenting and, of course QRP gear. Mike borrowed my NW-40, and my dual band Pixie2, a 6ah gel battery, an external TiCK keyer (in an Altoids box, of course), and took his own 38 Special. I gave him a thin wire antenna for 30 and 40 meters and he's bringing two extensions for using it on 80 meters with clip leads. The antenna (a resonant dipole) will not be used with any tuner so I think their band width especially on 80 will be limited (but they only have the Pixie2 for 80 meters and will rely on crystals anyway).

I have a sked with them (at least AA2QO) each night at 11:00 EST or 0400Z on 80 meters. We will start on the 3.686 freq and switch to 3.579 after 10 minutes of trying and then back again. Please join in if you hear them. I may not be able to copy them or visa versa. If you hear the struggle you may want to jump in there and give an assist by acting as a go-between. Or just jump in and we'll make it a round robin or maybe even a net :-). They will be doing their own FYBO from a tent in the woods of upstate NY or NJ.

BTW: I'm on digest mode here so if you have any questions or comments about this, please reply directly and not via the list cuz I won't receive your post until tomorrow. Let's make them feel successful and not alone out there. In the event of an emergency, this is their only means of communication along with a 2m HT on 146.52 and a rubber duck.

Hope to hear some of you tonight at 0400z.

72

Nick - KF2PH

QRP-L # 13 . .

--

Nicholas J. Franco <>> BROOKHAVEN NATIONAL LABORATORY
Systems Administrator RHIC Project Building 1005
Tel: (516) 344-5467 UPTON, NY 11973-5000
Fax: (516) 344-3674 Ham Call: KF2PH

Email: nickf@bnl.gov <http://www.rhichome.bnl.gov/People/franco>

Date: Fri, 16 Jan 1998 13:31:48 +0800
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
To: qrp@pandora.lugs.org.sg
Cc: kenwood@pandora.lugs.org.sg
Subject: [1099] What are the MARS/CAP bands?
Message-ID: <34bef0c6.pandora@pandora.lugs.org.sg>

Hi,

What are the MARS/CAP bands and who uses them? Thanks.

73 de 9V1ZV Daniel

--

```
+-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg |
| 9V1ZV      |                               |
| QRP-L #667 | 9V1ZV@amsat.org                       |
+-----+-----+
```

Date: Fri, 16 Jan 1998 07:36:24 -0700
From: Jess Gypin <jessqrp@concentric.net>
To: qrp-l@Lehigh.EDU
Subject: [1100] Internet charges to nauseum!
Message-ID: <34BF7068.5BA@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Can we PLEEEEEEEEEEEEEZE take this internet access stuff OFFLINE?????????
100 or 200 posts is ENUFF discussion about this here on qrp-l.
Pretty please?!?!?!?!?!?!?!?!?!?!?!?!?!?!?!?

--

Jess N0TFI <><
<http://www.concentric.net/~jessqrp>
qrp-l #1232 CQC #92 1997 Fox

Date: Fri, 16 Jan 1998 09:38:31 -0500 (EST)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: Adrian Weiss <aweiss@sunflowr.usd.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [1101] Re: Bright Idea Award #1; RG174U; Balun loss; c.w. tone
Message-ID: <Pine.SOL.3.94.980116091649.6203B-100000@larry>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> Also, while in passing, I ought to comment about a misconception about
> inserting a balun between a length of balanced line and a coax run to the
> shack. I think this arrangement came about from the frequently seen G5RV,
> where, given the specific length of the legs of the antenna, and given
> length of balanced line drops from the antenna, is connected to a run of
> 50-ohm coax of any length, which then completes the run to the shack. Now,
> the length of the balanced line, given the impedance of the antenna, is
> selected to provide an impedance transformation down to the vicinity of
> 50-ohms. Use any other length of line with that antenna, and it won't be a
> 50-ohm termination. In reality, the balanced line dropping from the G5RV
> is an impedance transformer doubling as the feedline. It is an integral
> part of the antenna system, just as an extra element on a yagi is. The
> coax is actually feeding a system terminated in the balun.
>

A short note on the G5RV scheme. 1. Since only the 102' wire radiates, the pattern is the same, no matter how fed, so long as equal power reaches the wire feedpoint for each scheme. 2. Every length of transmission line is both a feedline and a transformer. The G5RV tries for a wire length and parallel wire (450) that achieves something close to 50 ohms at its end for the harmonic hambands. Usually, it fails, since the wire feedpoint Z and consequently the Z at the end of the parallel line vary as the antenna is raised or lowered, uses different diameter wire, and generally succumbs to all the other variables.

Now, if we connect some further parallel line to the system, the line continues the transformation progression started at the wire feedpoint, and what the ATU sees varies from band to band. However, except for some lengths of overall line that defy ATU components, efficiency is best due to low losses in the parallel line--assuming one does not use a toroidal balun of the 4:1 type found in many network ATUs. All bets are off band-to-band if one uses such an ATU.

Line lengths can be calculated to bring the Z at the ATU terminals close to 50 ohms (+/-). Here, a 1:1 ferrite choke balun is handy to provide the network ATU with single-ended termination.

Alternatively, if one is willing to accept some loss, one can install a 1:1 ferrite choke at the original design parallel line termination

(usually given as 34' of 450) and use coax to a network tuner. This works best if the transition leaves less than 20' or so of coax and one uses RG213 or better. At 10:1 SWR at 10 meters, 20' of RG213 loses about 1 dB, and that is just about system max loss. Losses less on lower frequencies and with lower SWRs at the junction of the coax and the ferrite choke balun. The choke is not lossless, but does not do as badly as those 4:1 toroids when reactance is high. Why do this? In some installations, bringing parallel line indoors involves close proximity to unbalancing metal, etc., and losses here (loading up the duct work, telco lines, AC lines, etc.) can be considerably more than losses of the coax/ferrite 1:1 balun system.

If you have a clear path, use parallel line all the way.

It is a hangover from olden days to treat the antenna and some length of feedline as integral parts of the antenna system, pressing hard on the word "system" while still leaving the impression that the key word is antenna. Treating the antenna as the antenna and the feedline as something one can vary in length to effect various current, voltage, and impedance transformations gives the greatest flexibility of thinking. There are some charts on 102' wires on all the HF bands with some feedline information in one of the articles at my Web site in the Low Down series that may be useful in clarifying performance characteristics of the 102' wire.

Incidentally, the 100-102' wire was well known long before G5RV used it to try to make a simplified feed system for the harmonic bands. His call attaches not to the wire length, but to the feed system design. The length--about 3/8 w1 at 80 meters--was known in the 30s to be about the shortest effective 80-meter doublet--with the Feed Z going cookoo with shorter lengths. For limited space, it can be an effective radiator (and receptor), especially if you can get it up in the air good.

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\	/\	*	/	/	/	(Off)(423) 974-7215
1434 High Mesa Drive	/	\	\	----	/	---	(Hm) (423) 938-6335
Knoxville, Tennessee	/\	\	\	/	/		(FAX)(423) 974-3509
37938-4443 USA	/	\	\				cebik@utk.edu
URL: http://funnelweb.utcc.utk.edu/~cebik/radio.html							

Date: Fri, 16 Jan 98 07:57:00 PST
From: Mark E Gustoff <Mark_E_Gustoff@ccm.ch.intel.com>
To: qrp-1@Lehigh.EDU
Subject: [1102] How to lookup qrp-1 #

Hello Gang:

Can someone tell me how to lookup the qrp-1 number
that was assigned to me some time ago?

Thanks,
Mark

Date: Fri, 16 Jan 1998 08:01:46 -0700
From: Andy Fox <foxes@theriver.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1103] "Effective" Antenna Height
Message-ID: <34BF765A.2B384092@theriver.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello,

Several publications mention that an antenna may appear to be at a
different height (electrically) depending upon the soil composition near
the antenna. My guess is that it's unlikely that anybody would remove
six feet of dirt under the antenna and replace it with "better" soil to
improve the performance of their antenna. Has anybody here experimented
with watering the area under the antenna? I'm kind of reluctant to hose
down the yard with potable water (I live in the desert), but might try
it if the antenna performance could be improved significantly.

Thanks in advance, and 73

--

Andy Fox, KK7HV
mailto:foxes@theriver.com
<http://personal.riverusers.com/~foxes/>

Date: Fri, 16 Jan 1998 09:00:55 -0600
From: "JUNIUS B FOX" <w5hir@gte.net>
To: <qrp-1@Lehigh.EDU>
Subject: [1104] 6 meter ops
Message-ID: <199801161502.JAA20215@smtp2.mailsvcs.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

I certainly appreciate all of the help I received concerning the six meter operation. Since the posting, I have constructed a new antenna system, I now have heard six meter activity, albeit very weak. I researched the problem, and found that the loop I had constructed was peaked very high in the 6 meter band. Will modify that today.

Anyway, I have tried to respond to each of you who have helped me, and many thanks,

regards,

Foxy

Date: Fri, 16 Jan 1998 10:25:41 -0500 (EST)
From: George Gingell <k3tks@u1.abs.net>
To: njqrp@njqrp.org
Cc: qrp-1@Lehigh.EDU
Subject: [1105] Re: What CW tone do you prefer?
Message-ID: <Pine.BSI.3.96.980116100812.19816C-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Right Joe,

Us Elders like it a bit lower. :^)

500 hz is Just right for some of us. :^)

Have you seen the range on the MFJ-418 Morse Code Tutor?

305 Hz, 335 Hz, 366 Hz, 396 Hz, 427 Hz, 457 Hz, 488 Hz, 518 Hz, 549 Hz,
579 Hz, 610 Hz, 640 Hz, 671 Hz, 701 Hz, 732 Hz, 762 Hz, 793 Hz, 823 Hz,
884 Hz, 915 Hz, 945 Hz, 976 Hz, & 1006 Hz.

I have been using it mostly on 701 Hz and lower. Partly because I think that seems like the Tone at which it produces the best volume.

Being Handicapped. NO, Not that Handicap :) I am hearing impaired these days I have to use the 20 db amps built in :) Might account for my choices of the tone. I have better un-assisted, (no AMPS) hearing in the low frequency range. Most of us have similar problems once you pass QRP^10 mark (50). :^)

72

Sir George, The First :^)

72 ES

QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
QRP A.R.C.I. Net Manager and Board of Director Member.
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
Maryland Milliwatt Club QRP Reference Library, (301)572-6789
Maryland Milliwatt Club Founder and Trustee of Club Station KB3BVG
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

On Fri, 16 Jan 1998 jeverhar@camden.lmco.com wrote:

> Gang,
>
> Gads what an analytical group! It is very interesting to hear you all
> put forth intriguing ideas about what the ideal pitch should be.
>
> I discovered years ago that I'm different (ok, ok, pipe down - no
> sarcastic replies!). Back during my novice days of the 60's when WW-II
> surplus was waning there were several so-called range filters available
> at low cost to impecunious teenagers. They were sharp passive audio filters
> that you could put between a receiver's output and your headphones. They
> featured either a resonance originally intended to either enhance or notch
> out aeronautical range beacon tones at roughly 1 kHz. They were used by
> hams to help with qrm in unslective surplus receivers.
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> Well for me that was torture! Anything with that high a pitch was
> annoying noise! I did best with a tone much lower in frequency. As I
> recall I *could* hear tones better at 1 kHz, but copying cw required a
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>
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> really sharp ops at Field Day. Things were rough at first until we realized
> that his comfort frequency was much higher than mine. Once we realized this,
> we adapted to the other's preference. Then after FD we actually measured
> what worked best for each. His best results were with tones at about 800 Hz,

> while I enjoyed 600 better.
>
> And as my ears age, I *know* that my comfort frequency has lowered. It is now
> about 500 Hz. Not that I can't use 700-800, but 500 is better.
>
> My guess is that some young pipsqueak one time decided that 700-800 was best
> for him and that since *he* was the one designing a commercial rig, it seemed
> natural to use the tone best suited for him. And like so many things in this
> world, that set a precedent that we have followed since through inertia! :-)
>
> Bottom line - different strokes for different folks...
>
> 72/73,
>
> Joe E., N2CX
>
>
>
>
>

Date: Fri, 16 Jan 1998 07:36:40 -0800 (PST)
From: Monte Stark <ku7y@sage.dri.edu>
To: George Gingell <k3tks@u1.abs.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [1106] Re: What CW tone do you prefer?
Message-ID: <Pine.SUN.3.90.980116073207.7376B-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 16 Jan 1998, George Gingell wrote:

> Most of us have similar problems once you pass
> QRP^10 mark (50). :^)

Holly Cow Danny,

5^{10} (5 to the tenth power) is a bit more than 50. It's 9,765,625.

It's a wonder you can hear at all!!

On the other hand $\text{QRP} \times 10 = 50$ might be better!

OK folks, I just had to do that because I just spent a

couple of hours wondering why some numbers didn't work
out right and the error was in using the wrong symbols!!

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Fri, 16 Jan 1998 07:47:20 -0800 (PST)
From: Monte Stark <ku7y@sage.dri.edu>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [1107] Missing Pages in the Quarterly
Message-ID: <Pine.SUN.3.90.980116074043.7376E-1000000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

We have just about used up all the "extra" copies we have
of the Jan98 issue. (Danny had about 3 left!). And there
are still more defective copies out that need to be replaced.

So we are having the printer make another run. This will
give us what we need to do the replacing and to have some
for back issue use.

So if you have a defective copy, let Danny know but be ready
to wait a little!

The printer hopes to have them printed and delivered to Danny
around the end of next week. I think the delivery will take
a bit longer and expect to see Danny get them the following
week. We have NO control over UPS! (Nor does anyone else!)

Thank you for your understanding.

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....

....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Fri, 16 Jan 1998 09:47:19 -0600
From: "Claton Cadmus" <aplitech@spacestar.net>
To: <cebik@utkux.utcc.utk.edu>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [1108] Re: Bright Idea Award #1; RG174U; Balun loss; c.w. tone
Message-ID: <00af01bd2296\$b40f9200\$84c9bfce@groucho>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have to chime in here as well. I have wrote many messages over the years about the G5RV. Everything L.B. wrote is the previous message is true. I would like to add a couple comments.

There is no magic to the G5RV dimensions, but there are magic dimensions to all dipole installations, be that resonant or for multiband use. The trick is to find them. Most Hams don't want to take the time. The next best alternate is to simply install as much wire as you can that's close to a halfwave at the lowest band you want to work. Use a balanced feedline and a balanced tuner. Leave some extra feedline length and if you have a band that's trouble to match, shorten the feedline a little and try again. If you already own a tuner and it has balanced outputs, open it up. If you see a toroid balun in there, don't use it. If this is the case or it doesn't have balanced output at all, make a good choke balun using ferrites as L.B. suggests, or wind some RG-58 solid poly coax around a 3" to 5" dia plastic form, about a 20 to 30 foot length of coax usually is enough. Yes this will induce some loss, but the balanced feed is more important. In this shack I use coax to make it out to the side of the house, the latter choke balun and 450 ohm ladder line to a 100 foot wire about 40 feet up.

Seldom it's mentioned, but the most important thing is the orientation of the dipole. Read this article :

On Center Fed Multiband Dipoles Mar-94 QST page 34

You may find that a shorter dipole oriented in a different direction will give you better coverage in the direction you want especially when using a multiband dipole on the higher frequencies.

And lastly, there is no substitution for height of the dipole.

Hope this Helps,

73 de Cla KA0GKC

Date: Fri, 16 Jan 1998 10:57:29 -0500
From: "Dave Rowe" <elim@ime.net>
To: <foxes@theriver.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [1109] Re: "Effective" Antenna Height (long)
Message-ID: <001301bd2297\$737fbfc0\$27c65ad1@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

-----Original Message-----
From: Andy Fox <foxes@theriver.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Friday, January 16, 1998 10:03 AM
Subject: "Effective" Antenna Height

>Hello,
>
>Several publications mention that an antenna may appear to be at a
>different height (electrically) depending upon the soil composition near
>the antenna. My guess is that it's unlikely that anybody would remove
>six feet of dirt under the antenna and replace it with "better" soil to
>improve the performance of their antenna. Has anybody here experimented
>with watering the area under the antenna? I'm kind of reluctant to hose
>down the yard with potable water (I live in the desert), but might try
>it if the antenna performance could be improved significantly.
>
>Thanks in advance, and 73
>--
>-----
>Andy Fox, KK7HV
>mailto:foxes@theriver.com
><http://personal.riverusers.com/~foxes/>
>-----
>
>

Hi Andy

watering the soil under your antenna will make very little difference in the effectiveness of the system.. the real area that would be likely to affect it is several wave lengths out at the and at the first hop distance..
you did not say what type of antenna your using . I'm assuming it's a dipole of some sort.. better approach if you feel the ground is affecting antenna performance would be to use an artificial ground system of some sort to enhance conductivity in the ground system.. a system of radials or counterpoise wires might help..
give us more information on frequencies.. , antenna types, type of operation desired, local or dx and heights.. maybe we could be more specific with answers that would help and be practical.. dumping gallons of water on the desert will not usually help.

73 dave Kc1di qrp arc1 3843

Date: Fri, 16 Jan 98 08:55:00 PST
From: Mark E Gustoff <Mark_E_Gustoff@ccm.ch.intel.com>
To: qrp-1@Lehigh.EDU

Text item:

RUN QRP-L X GETNR W07T

Text item: External Message Header

The following mail header is for administrative use
and may be ignored unless there are problems.

IF THERE ARE PROBLEMS SAVE THESE HEADERS.

Subject: RE: How to lookup qrp-1 #
To: Mark_E_Gustoff@ccm.ch.intel.com
Message-Id: <36969.owen@piper.eeel.nist.gov>
Reply-To: owen@piper.eeel.nist.gov
Sender: owen@piper.eeel.nist.gov
From: "James C. Owen, III" <owen@piper.eeel.nist.gov>
Date: Fri, 16 Jan 1998 10:16:08 -0500 (EST)
X-NUPop-Charset: English
Received: from [129.6.65.101] by piper (SMI-8.6/SMI-SVR4)
id KAA10934; Fri, 16 Jan 1998 10:11:50 -0500
Received: from piper (piper.eeel.nist.gov [129.6.65.1])
by pan.ch.intel.com (8.8.6/8.8.5) with SMTP id HAA17465

for <Mark_E_Gustoff@ccm.ch.intel.com>; Fri, 16 Jan 1998 07:22:28 -0800 (PST
)
Received: from pan.ch.intel.com (pan.ch.intel.com [143.182.246.24]) by chmail.ch
.intel.com (8.8.5/8.7.3) with ESMTP id HAA26313 for <Mark_E_Gustoff@ccm.ch.intel
.com>; Fri, 16 Jan 1998 07:10:23 -0800 (PST)
Return-Path: owen@piper.eeel.nist.gov

Date: Fri, 16 Jan 1998 09:03:19 -0700
From: "Ron Smith" <resmith@primenet.com>
To: <Mark_E_Gustoff@ccm.ch.intel.com>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [1111] Re: How to lookup qrp-l #
Message-ID: <011401bd2298\$4713df60\$5122a5ce@primenet.com.primenet.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Mark,

If you go to <http://qrp.cc.nd.edu/QRP-L/clubinfo.html> you will find an area
titled Member Utilities and a sub area titled Membership Information
Commands. Click on "Get your QRP-L Member Number" and your number will be
e-mailed to you.

72

Ron Smith

Amateur Radio Callsign: KD7VD
Southwest Idaho
E-mail: resmith@primenet.com
QRP-L #1291

Date: Fri, 16 Jan 98 09:04:00 PST
From: Mark E Gustoff <Mark_E_Gustoff@ccm.ch.intel.com>
To: qrp-l@Lehigh.EDU
Subject: [1112] Got My qrp-l #

Text item:

Thanks to quick response of so many. I now have my number for new batch of QSL cards I'm having made. For others who also forgot, it appears the quickest reference was via the web

<http://qrp.cc.nd.edu/QRP-L/clubinfo.html>

73,
Mark

Text item: External Message Header

The following mail header is for administrative use and may be ignored unless there are problems.

IF THERE ARE PROBLEMS SAVE THESE HEADERS.

X-MimeOLE: Produced By Microsoft MimeOLE V4.72.2106.4
X-Mailer: Microsoft Outlook Express 4.72.2106.4
X-MSMail-Priority: Normal
X-Priority: 3
Content-Transfer-Encoding: 7bit
Content-Type: text/plain;
 charset="iso-8859-1"
MIME-Version: 1.0
Date: Fri, 16 Jan 1998 10:50:25 -0500
Subject: Re: How to lookup qrp-l #
To: <Mark_E_Gustoff@ccm.ch.intel.com>
From: "Dave Rowe" <elim@ime.net>
Message-ID: <000601bd2296\$76c36e80\$27c65ad1@default>
Received: from default (standish-30.ime.net [209.90.198.39])
 by ime.net (8.8.7/8.8.7) with SMTP id KAA12824
 for <Mark_E_Gustoff@ccm.ch.intel.com>; Fri, 16 Jan 1998 10:50:25 -0500 (EST
)
Received: from ime.net (ime.net [209.90.192.3])
 by pan.ch.intel.com (8.8.6/8.8.5) with ESMTMP id HAA19112
 for <Mark_E_Gustoff@ccm.ch.intel.com>; Fri, 16 Jan 1998 07:53:07 -0800 (PST
)
Received: from pan.ch.intel.com (pan.ch.intel.com [143.182.246.24]) by chmail.ch
 .intel.com (8.8.5/8.7.3) with ESMTMP id HAA28870 for <Mark_E_Gustoff@ccm.ch.intel
 .com>; Fri, 16 Jan 1998 07:41:02 -0800 (PST)
Return-Path: elim@ime.net

Date: Fri, 16 Jan 1998 09:09:30 -0700
From: Andy Fox <foxes@theriver.com>
To: Dave Rowe <elim@ime.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1113] Re: "Effective" Antenna Height (long)
Message-ID: <34BF863A.1B6B2B7C@theriver.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Dave,

You're right - I forgot to mention that my antenna is a dipole cut for 40 meters. It's low (<15 feet). Right now I'm feeding it with RG213, but am going to switch to a ZM-2 transmatch and some ladder line soon. It looks like I should continue to conserve water...

Thanks, and 73

--

Andy Fox, KK7HV
mailto:foxes@theriver.com
<http://personal.riverusers.com/~foxes/>

Date: Fri, 16 Jan 1998 09:13:53 -0700
From: ji3m@maxwell.com (James R. Duffey)
To: qrp-1@Lehigh.EDU
Subject: [1114] Odd Thoughts on Balanced Feedline and Tuners (long)
Message-ID: <v02130501b0e527128f46@[192.31.66.158]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

The recent threads on antenna tuners and balanced feedline construction fired a few neurons. I waited until my thoughts filled the output buffer and have decided to give a dump to the list.

1. Feedlines. I alternate between commercial "window line", homemade balanced feedline, and coax. Each has its advantages and disadvantages. The disadvantages are usually such to make me switch feedline types when a new antenna goes up.

a) The commercial window line is easy to work with and maintains separation without a lot of additional work. The commercial line I have used deteriorates rather rapidly in the environments I have used it in. Small

cracks develop in the dielectric which absorb water and change line impedance and SWR with humidity. Things really get fun when it rains. To be fair, I have used this line in the LA area where pollution contributes to its rapid deterioration, and at my present QTH at about 7000 ft asl where the UV certainly contributes to its deterioration. The stuff I have used had the old brown polyethylene (is this what the Brits call polythene?) dielectric; I have seen modern stuff with what looks like an improved black dielectric. It may be better. I am leaning towards using premium 300 Ohm balanced feedline for TV use from Radio Shack for my next try in this area.

b) Home made ladder line is cheap and pretty straightforward, if somewhat tedious, to make. My present line is made from wire I scrounged when they replaced the PBX system at work with spacers made from the spines of report covers. I don't recommend this material, it is hard to fit the wire in the spine, and all colors but black have deteriorated (depolymerized and become brittle) after 3 yrs exposure to the sun at my current QTH. The line must be kept under tension or the spacing is not preserved. It is a hassle to get into the house, I will use a bridge of 300 Ohm TV line through the house next time to resolve this issue. When I make my next line I will use stranded wire and make the spreaders from something that is UV stabilized. It appears that the cheapest source of such material is the grey PVC electrical conduit.

c) Coax is easiest to handle. Its cost can be high, but good deals can often be had on quality surplus coax removed from computer networks. At low frequencies it has low losses. It is best for matching resonant half wave dipole antennas. Usually no external matching is required, or one can get away with simple matching. It is heavy and puts lots of strain on centerfed antennas supported at the ends. It is ideal for inverted Vee installations. It cannot be used as a feed for a single antenna on multiple bands, but parallel fed dipoles for harmonically related bands are a way around this limitation, as are trapped antennas and other multiband antennas. The jackets of most coax have UV stabilizers so I have not suffered the same deterioration with Coax as I have with the balanced feeders. In addition to the commonly used 50 and 70 ohm coax, 92 ohm coax is available and is useful for antennas such as quads and $3/2$ wavelength dipoles. A dipole fed with coax should always include a 1:1 choke balun, either ferrite or air core, at the feedpoint. This reduces currents on the outside of the feedline.

2. L. B.'s comments on tuners are right on the money. For coax use a network, for balanced feeders use a link coupled tuner. I would like to expound further on this though;

a) For networks to use on coax I recommend "l" (ell) networks. In an l network there is one unique setting of the inductance and capacitance that results in a match. With other commonly used networks, such as the Tee, and

pi, there can be several settings that will result in a match and these are not always the same in terms of loss. Unless one tunes with a field strength meter, one does not know which setting is optimum. To be fair, the correct setting of the L match may require very large or very small sizes of L and C, but these can usually be accommodated. A good L network can be easily constructed with a 200 pf or greater variable capacitor, and a good air core inductor. Variable capacitors can be found at swap meets as can old Air Dux coils. You can also make your own air core inductor from instructions recently published in QST.

b) For balanced feeders a good low loss tuner can be made by switching in and out varying lengths of feed line to obtain a good match to coax. Cecil, W6RCA has details of this on his web page.

c) When it comes to used tuners, everybody knows about the Johnson Matchbox. An equally good T match tuner, which is lesser known, is the Millen Transmatch. A look inside either of these tuners will put modern tuners to shame. The capacitors are wide spaced, inductors are silver plated, and heavy duty ceramic switches are used.

3. If you want good performance from a resonant dipole at 160 M or 80 M consider carefully how it is fed. One can often have lower losses by feeding it with coax than with balanced feeders and a tuner. At these frequencies the loss of even RG-58 is low for runs less than 100 feet. Low loss inductors are much harder to make at these frequencies and the combined losses from tuner and balanced feeder (even without a 4:1 balun) may well be greater than with a coax feeder fed straight from the transmitter. Of course one loses the ability to use the antenna on higher bands, but one can always erect another antenna for these bands or feed it with Cecil's methods.

Just my \$0.02 worth. I hope somebody benefits from it. - Duffey KK6MC/5

James R Duffey KK6MC/5 DM65
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Fri, 16 Jan 1998 09:09:28 -0700
From: "Ron Smith" <resmith@primenet.com>
To: <jessqrp@concentric.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [1115] Re: Internet charges to nauseum!
Message-ID: <011f01bd2299\$85318e40\$5122a5ce@primenet.com.primenet.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Jess you need to get some sleep. :-) There have only been 25 messages with "Internet" in the subject since the 1st of January 1998. Granted they are not related to QRP -- other than getting access to the list, and sometimes boring. If you only read them once, there aren't so bad. :-)

Only kidding Jess, only kidding...

72

Ron

-----Original Message-----

From: Jess Gypin <jessqrp@concentric.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Friday, January 16, 1998 7:37 AM
Subject: Internet charges to nauseum!

>Can we PLEEEEEEEEEEEEEZE take this internet access stuff OFFLINE?????????
>100 or 200 posts is ENUFF discussion about this here on qrp-l.
>Pretty please?!?!?!?!?!?!?!?!?!?!?!?!?!?!?!?
>--
>Jess NOTFI <><
><http://www.concentric.net/~jessqrp>
>qrp-l #1232 CQC #92 1997 Fox
>
>

Date: Fri, 16 Jan 1998 15:31:27 +0800
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
To: qrp@pandora.lugs.org.sg
Subject: [1116] Antennas: Any difference between hot and ground legs of dipole?
Message-ID: <34bf0ccf.pandora@pandora.lugs.org.sg>

Hi,

Here's another question I just thought about. Suppose I had a dipole, fed with a coax and no balun. Now suppose that in the installation of this dipole, one of the legs is in the clear, and the other is in proximity to

some conductive object.

Would there be any difference in the radiating/receiving ability of the dipole which might be attributed to which leg (hot or ground) is in the clear? This would not be a problem with a balanced feed but since our feed is coax, would there be any difference in the two legs?

Thanks.

73 de 9V1ZV Daniel

p.s. I know, I have weird questions.

--

```
+-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg |
| 9V1ZV      |                               |
| QRP-L #667 | 9V1ZV@amsat.org                     |
+-----+-----+
```

Date: Fri, 16 Jan 1998 08:30:49 -0800
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
To: <foxes@theriver.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [1117] Re: "Effective" Antenna Height (long)
Message-ID: <01bd229c\$1a95a820\$309f5ecf@double_trouble.reliablemeters.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Andy --

The best use of that precious water would be to plant two trees spaced 69 feet apart and water them prodigiously. Then hang your dipole from the tops of the trees.

The 15 ft height causes the radiation to go pretty much straight up. At useful elevation angles for skip communications (more than a few hundred miles) the radiation level is reduced dramatically, perhaps -30 dB or more. At that level, a few miles of RG213 won't make a difference.

Mike K1MG

>You're right - I forgot to mention that my antenna is a dipole cut for >40 meters. It's low (<15 feet). Right now I'm feeding it with RG213,

qrp-l. I have a number of files, but nothing like complete, and I'd be interested in seeing what others have. My e-mail system will not let me accept an attached file from outside our company walls, so anything you send me will have to be an actual e-mail file. If it's worth the effort, maybe we can get a directory set up in the qrp-l archives specifically for Sierra notes and mods.

Because I can't always read the archives, please send any notes to me directly at my e-mail address below.

OBTW, I love my Sierra (Wilderness model.) I have band modules for 160, 80, 40, 30, 20, and 15. The modules for 160 and 80 are not completed. I also have the KC-2 installed, and have the Buzznot patiently awaiting installation. The support I've always received from Bob Dyer and Wayne Burdick has been superb! Thanks guys!

72's es 73's,

Brad, WB0CGH

Brad Bradfield, PE
WB0CGH
108 Forestwood Dr.
Corinth, TX 76205

qlf@msg.ti.com

Date: Fri, 16 Jan 1998 11:36:18 -0500
From: "Ronald Hands" <rhands@hwcen.org>
To: <qrp-l@Lehigh.EDU>
Subject: [1120] QRP freq on 17 meters?
Message-ID: <199801161636.LAA10905@hwcen.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Just bought a 17 meter module for my Scout, so now I'd like to know if there's a designated QRP calling/listening frequency for that band?

-- Ron VE3SP

Date: Fri, 16 Jan 1998 09:43:42 -0700 (MST)
 From: Paul Harden <pharden@aoc.nrao.edu>
 To: qrp-1@Lehigh.EDU
 Cc: gqrp-1@blacksheep.org
 Subject: [1121] Solar Info: 15Jan98
 Message-ID: <Pine.SOL.3.91.980116093857.17054A-100000@zia>
 MIME-Version: 1.0
 Content-Type: TEXT/PLAIN; charset=US-ASCII

SOLAR ACTIVITY QUICK-LOOK *** Updated: 15JAN98

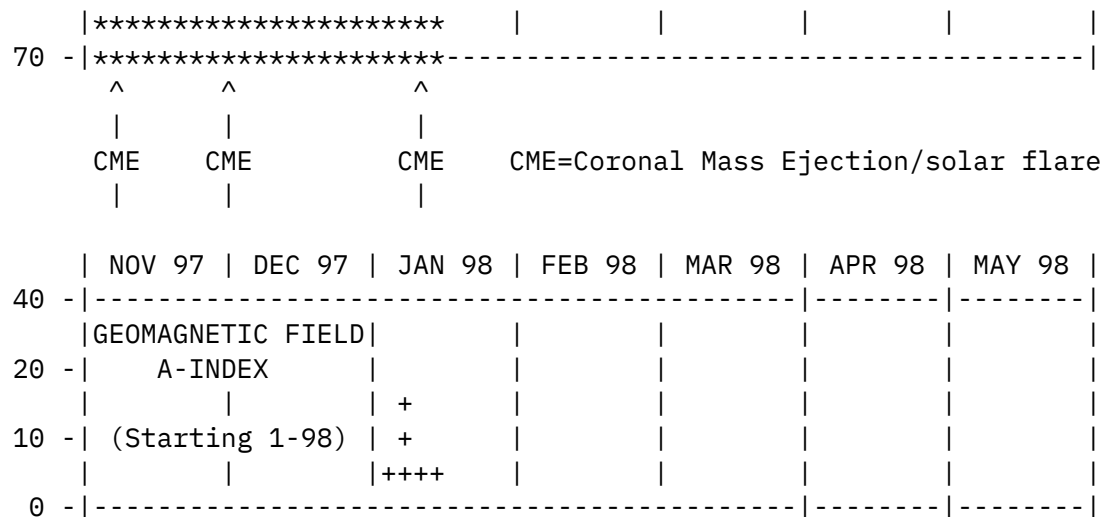
```
=====
----- SOLAR ACTIVITY -----      ----- GEOMAGNETIC FIELD ACTIVITY -----
10cm flux average:  98                      A-Index:  4
3-5 day forecast: 100-105                3-5 day forecast: 10
```

A CME (Coronal Mass Ejection) on 11-12 Jan may unfavorably impact the geomagnetic field to storming conditions 16-17 Jan. A new area on the sun has been producing C-class flares, and growing, with the potential for some strong activity over the next week.

```
+----- 1997 HISTORY -----+
|JAN|FEB|MAR|APR|MAY|JUN|JUL|AUG|SEP|OCT|NOV|DEC|
140 -|-----|
-| : : : : : : : : : : : : |
120 -|.....*.....*...|
-| : : : : : : : : * : * ** |
100 -|.....**.....*,***,*|
-| : : : : : : : ***** * *****|
80  -|.....*****|
-|*****|
```

SOLAR

FLUX	NOV 97	DEC 97	JAN 98	FEB 98	MAR 98	APR 98	MAY 98
130							
120		*					
	*	*					
110	**	***					
	**	***					
100	**-----*	-----*	-----*				
	** * *****	** *					
90	*****-****	*					
	***** *						
80	*****						



NOTE: Due to a couple of suggestions, I am also sending this to G-QRPL list. If members of the G-QRPL feel it has no interest or inappropriate, please let me know and I'll gladly stop it. I usually post this weekly, or when a significant solar event occurs.

72, Paul Harden, NA5N

National Radio Astronomy Observatory
VLA/VLBA Radio Telescopes
Socorro, NM, USA, Earth

Date: Fri, 16 Jan 1998 08:44:17 -0800
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
To: <paulc@mediaone.net>
Cc: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [1122] Re: Notched NorCal K8FF Paddle Handles
Message-ID: <01bd229d\$fc4ac3d0\$309f5ecf@double_trouble.reliablemeters.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The best method is to clamp them together in a vise and file the corner off. I also found it useful to glue the two plastic pieces together with wood glue. Leave the paper covering in place, of course, until you are finished shaping, then peel to separate the pieces.

You can use a hacksaw to rough cut the shape if you are impatient, but the plastic can be shaped pretty quickly with just a file.

Whether you received four-sided or five-sided plastic pieces, you will need to shape them before using them. The rectangles give you more freedom of choice for the final shape.

Mike K1MG

>When I received my paddle kit a while back, the paddle handles came without
>a "notch" on the corner. I remember a message thread about this and I am
>wondering how I might be able to get a set of these. Thanks!

Date: Fri, 16 Jan 1998 08:49:33 -0800 (PST)
From: Monte Stark <ku7y@sage.dri.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1123] Re: "Effective" Antenna Height
Message-ID: <Pine.SUN.3.90.980116083454.7526B-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

I don't disagree with what is being said about feedlines and etc.

But lets keep it in prespective. I think many new hams feel that things have to be "just right" to work. That's just not true.

Look at my instalation as an example. Right now I have a nice antenna. 2 ele on 40m at 85'. Also 2 ele on 20, 15 and 10m. OK, that should work just fine. But first I need to get some RF to it!

The top of the tower is about 250' from the radios. I have a total of \$10 invested in the feedlines!! I bought a 1000' spool of CATV drop line for \$10 a few years ago. I also got a spool with about 400' of 1/2" CATV hardline given to me.

So I use the 1/2" up the tower and the drop line (which is small like RG59 but with a support wire molded into the jacket) to run to the bottom of the tower.

Connections at the bottom are made with PL259's. So far so good.

At 80' I have a box mounted on the tower. There I connect the 50 ohm coax from the yagi to the 75 ohm hard line. I use hose clamps to hold the braid of the coax to the jacket of the hardline. The center conductors are connected with wire nuts.

I let the tuner in the radio handle whatever SWR there is. I have had very good luck with QRPp as many of you know.

By the way, all the coax going to the tower is laying on the ground.

Before I had that, all I had was a 24' pipe mounted on a 4x4 post. I used the dropline as the feed line. Connected to the pipe with a self tapping screw. The braid was connected to the radials with wire nuts. The whole radial system was connected with wire nuts.

Again I just let the tuner handle the mismatch. I don't think I ever even measured the SWR! Hey, it loads, so I just got on and had fun.

With that antenna I worked Heard Island on 40m. (100w). Not a bad catch. And did VERY WELL as the fox in spite of some very bad local AC line noise that year. (Second place!)

So while all these talks about losses are right on the money and you should strive to do the best you can, don't ever forget to hook up SOMETHING and have fun!!

Then start the process of improving!!

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Fri, 16 Jan 1998 09:11:28 -0800
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
To: <pharden@aoc.nrao.edu>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [1124] Re: Solar Info: 15Jan98
Message-ID: <01bd22a1\$c860fb80\$309f5ecf@double_trouble.reliablemeters.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Paul --

Thanks for the solar update. As a solar novice, I sure appreciate the summaries and your helpful explanations.

The CME would seem to explain the unusually poor propagation in last night's fox hunt.

While I'm at it, I'd like to order up some extra-special-good 40 meter propagation for my next turn as fox, UTC 13 February. Think you could put in a good word?

Mike K1MG

Date: Fri, 16 Jan 1998 17:27:40 GMT
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: Mark_E_Gustoff@ccm.ch.intel.com
Cc: qrp-l@Lehigh.EDU
Subject: [1125] Re: How to lookup qrp-l #
Message-ID: <199801161727.RAA27347@chuck.dallas.sgi.com>

Mark et.al.,

If you need to see your number, then send email to

LISTSERV@LEHIGH.EDU

and in the body put

GET QRP-L/MISC MEMBER_NUMBERS.TXT

and to head of the question that usually follows this one :-). To get a secret one-of-a-kind QRP-L number useful for foxhunting then in body put

RUN QRP-L X GETNR your_call

and both commands can be sent in the same email, but your number won't be there yet. :-)

dit dit
Chuck Adams K5FO CP-60
<http://reality.sgi.com/adams> adams@sgi.com

Date: Fri, 16 Jan 1998 17:32:04 +0000
From: Ed Loranger <we6w@qsl.net>
To: wpc@west.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1126] Re: Tuna Tin Two Photo/Webpage!!!
Message-ID: <34BF9994.60A@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I had never seen one. The photo is awesome. What a neat contribution to qrp you have made.

Thanks!
-Ed

John Roblin / Whiterook Products Co. wrote:

>
> Attention all Tuna Tin Two Fans!!! After searching frantically throughout
> the garage, my trusty TT2 popped up. So I grabbed my Apple QuickTake and
> snapped a photo for all of you to see.
>
> It is now part of the "Joys of QRP" photo section of the Whiterook Products
> Website, which I hope many of you will visit, enjoy, and perhaps contribute
> to.
>
> To see my vintage, *classic* 1976 Tuna Tin Two, go directly to:
>
> <http://www.west.net/~wpc/tunatin2.html>
>
> 72, -John WA6KY0
>
> -----
> John Roblin WA6KY0
> Whiterook Products Company
> "Mini-Keys and Other Cool Things!"
> <http://www.west.net/~wpc/>

--
Recipient of coveted Samuel F. B. Morse Award, NTTC Pensacola, FL 1977.

72/73 de we6w qrp es CW ONLY; Member: QRP-L/ARCI/Norcal/ARS/AR
<http://www.qsl.net/we6w> (From Non-Ham to Extra in one Day.)

Date: Fri, 16 Jan 1998 17:35:00 GMT
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: rhands@hwcn.org
Cc: qrp-l@Lehigh.EDU
Subject: [1127] Re: QRP freq on 17 meters?
Message-ID: <199801161735.RAA27454@chuck.dallas.sgi.com>

Here is what I have:

BAND	CW	SSB	
160M	1.810MHz	1.910MHz	
	1.843MHz		(Europe)
80	3.560	3.985	
	3.710		(US Novice)
	3.579		(Colorburst TXes)
40	7.040	7.285	
	7.030<-->7.060		(Europe)
	7.110		(US Novice)
30	10.106		
	10.116		
20	14.060	14.285	
17	18.080	18.130	
	18.090		(QRP-L survey)
15	21.060	21.385	
	21.110		(US Novice)
12	24.910	24.950	
10	28.060	28.885	
	28.110	28.385	(Novice CW)
		28.360	(suggested in SPRAT)
6	50.060	50.885	
	50.125	50.125	National calling frequency -- everyone listens here
2	144.060	144.285	
	144.200	144.200	National calling frequency -- everyone listens here

Chuck Adams K5FO CP-60
<http://reality.sgi.com/adams> adams@sgi.com

Date: Fri, 16 Jan 1998 11:45:16 -0600
From: "Jeff M. Gold" <JGold@tntech.edu>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [1128] Small wonders GM-30 For sale-Cheap
Message-ID: <34BF9CAC.DF9A7D7A@tntech.edu>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

I would like to sell this. It works great, it is in a very nice small case, has built in on/off switch, RIT and built in speaker \$75 shipped US>

A commercial-quality printed-circuit board

- Dimensions- 3.50 x 5.00"
- Double-sided with masks, component legend

Improved crystal filtering.

More audio- an LM-380 audio final provides speaker drive levels

More output power- 2.5 watts on 20 Meters

On-board RIT

No jumpers

All controls connect through .100" gold-plated headers.

The kit provides pre-assembled connector harnesses.

Extended frequency coverage- 80-100 Khz

A Heterodyne Local Oscillator (LO).

Only minor changes are necessary to put the Green Mountain on any of the high bands.

Like the SW-40 series, the Green Mountain uses only top-quality new parts

72 Jeff, AC4HF

--

Jeff M. Gold, Manager
Academic Computing Support
Tennessee Technological University
(615)372-3979

Date: Fri, 16 Jan 1998 09:50:10 -0800 (PST)
From: Randy Foltz <rfoltz@wsunix.wsu.edu>
To: qrp-l post <qrp-l@Lehigh.EDU>
Subject: [1129] FOX ID Report
Message-ID: <Pine.OSF.3.95.980116094520.23555A-100000@unicorn.it.wsu.edu>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Howdy, Gang.

It was an interesting night. I had wanted to take it a bit more relaxed than my FOX night in November and on my end it was that way. I was set to start on 7.037 but just before 0200 it got clogged up. 7.043 was open so I started there. The run was great until around 0240 or so. After that signals just went completely away. Interestingly 0240 corresponds well with WA4DA's observation from VA that the FOX was audible until about 35 minutes after 0200.

It was lonely from 0248 to 0300 when Chuck gave me a call. He was strong but faded to nearly invisible as he was sending his NR. It got real lonely during the 30 minutes between Chuck and Ron. Ron was at 5w with his beam headed my way and he sure wasn't very strong.

Around 0340 the background noise dropped a bit and I could hear very tiny signals but couldn't tell if they were calling me or in QSO with other stations. I was able to hear one signal that seemed timed to my calls and figured out that it was Mike, K1MG. I'm not sure that he heard my final, but I thanked him for the ESP QSO! A couple more CA stations came into view during the last 15 minutes. They gradually got stronger until 0400 rolled around. At 0400 I sent TU HUNTERS DE AB7TK QRT dit dit. I heard two "ditters". Who were you?

There would have been more of you in the log if I'd not have had the 30+ minute dry spell. I just couldn't hear anyone. If you heard me between 0250 and 0330 I'd be interested in hearing from you.

W0RW - Nice touch with the very low tone! It sure caught my attention.

WE6W - How does the thrill of being first compare with the thrill of being last? :)

WB4EBW - I sure had a tough time with your call. Hope I got it right.

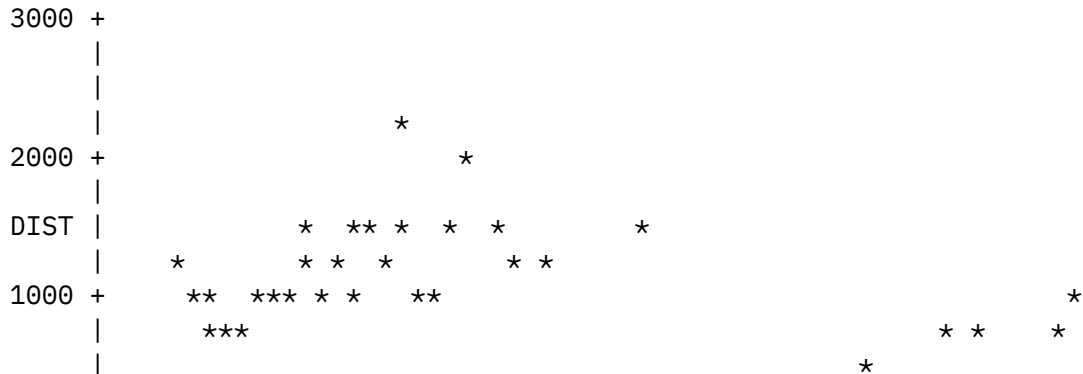
Note that this QSO was good for 1,000 miles per watt!

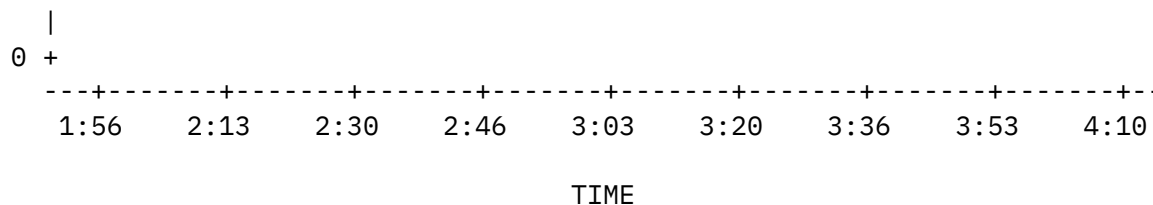
Equipment was Sierra at 2 w into a GAP Titan. I got too lonely at 2 w so around 0325 I changed to the Triton IV at 5 w. I'm not sure it made a great difference, but I needed to do something different.

Time	Station	Sent	Rcvd	State	Name	Nr	Miles
0200	N5LU	559	559	OK	BILL	5W	1320
0201	AB5UA	559	559	OK	CLIF	478	1310
0203	N7IR	559	559	AZ	GARY	1330	970
0204	N7VE	559	559	AZ	DAN	5W	950
0206	N6MM	559	579	CA	HARVEY	318	870
0207	W0RW	559	579	CO	PAUL	2W	820

0208	W6SU	559	599	CA	JOHN	48	870
0210	W6ZH	559	579	CA	PETE	257	870
0211	N7KT	559	579	AZ	ROGER	62	960
0213	WB0T	559	579	IA	JERRY	1268	1050
0216	NQ7X	559	559	AZ	FLOYD	343	930
0217	WA9PWP	559	579	WI	PAUL	127	1380
0218	W0CH	559	559	MO	DAVE	618	1330
0220	AB7TT	559	559	AZ	JOE	191	980
0221	AA0ZZ	559	569	MN	CRAIG	1238	1130
0223	AF5Z	559	459	TX	BOB	984	1520
0224	KI7MN	559	339	AZ	BOB	271	970
0226	N5JI	559	559	TX	DICK	1054	1430
0228	K0EVZ	559	559	MN	DOC	861	1200
0229	W5FN	559	339	TX	TIM	586	1530
0231	WB4EBW	559	339	NC	WATSON	5W	2200
0233	AB7MY	559	569	AZ	GARY	571	970
0235	N7XJW	559	559	AZ	BERTIE	1259	970
0236	KA5T	559	449	TX	LARRY	89	1515
0239	N4ROA	559	449	VA	DAN	968	1890
0242	K5JHP	559	?	TX	BILL	825	1430
0244	AA5TA	559	339	TX	LARRY	1245	1180
0248	W5SB	559	559	TX	BILL	1289	1289
0301	K5F0	559	449	TX	CHUCK	1	1430
Changed rigs to Triton IV running 5 w							
0330	KU7Y	339	549	NV	RON	17	530
0341	K1MG	339	229	CA	MIKE	614	700
0346	N6WG	339	339	CA	BOB	26	690
0355	K06KA	339	449	CA	ROB	176	800
0357	WE6W	559	449	CA	ED	1068	900

Here is a little plot of distance and time. Notice that the band appeared to be going long up to the "dry spell" then it was only "short." I guess that the point is for the closer in stations to a FOX to not give up when the band is long because it might come back shorter again. At least it did in this sample of one night.





Let me know if there are any corrections. Thanks to all for the fun evening.

72,
 Randy
 AB7TK ARCI QRP-L NORCAL NWQRP ARS
 Moscow, ID

 Date: Fri, 16 Jan 1998 13:58:59 -0500 (EST)
 From: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
 To: qrp-l <qrp-l@Lehigh.EDU>
 Subject: [1130] EGISTRATION FOR THE QRP BANQUET OPENS!!!
 Message-ID: <Pine.LNX.3.95.980116134901.32739C-100000@w3eax.umd.edu>
 MIME-Version: 1.0
 Content-Type: TEXT/PLAIN; charset=US-ASCII

Dayton Hamvention QRP Banquet, sponsored by QRP ARCI.

Friday, May 15, 7 p.m. at the Days Inn Dayton South, Miamisburg, OH.

Estimated attendance - 250 (it's capped at that!)

Price per person - \$22 (and well-worth it...read why)
 Lots of door prizes from many vendors, and we're streamlining the method
 of passing them out :)
 Ade Weiss, W0RSP, as the keynote speaker

BUFFET DINNER!

Three main courses, two veggies, two salads, and dessert, plus breads,
 rolls, coffee, tea...plus a few hundred QRP friends and their friends from
 all over the world!

Make checks out to QRP ARCI

Send them to:

Scott Rosenfeld NF3I
4015 Sparrow House Lane
Burtonsville, MD 20866-1333

If you order multiple tickets, a single check for the total amount will suffice. Please indicate the name and callsign, if any, of everyone for whom a ticket is being purchased (for my records).

If you want a paper confirmation, please include an SASE.

I can also confirm via electronic mail or telephone.

We're talking lots of food and fun.

Even if you've told me you wanted to attend, YOU MUST SEND A CHECK/M.O. to get the ball rolling! Thanks to all!

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
* 6m 82 grids on 8w * DXCC WAS WAC * QRP-L #147 * QRP ARCI #9054 *
* <http://w3eax.umd.edu/~ham> * ARRL Life Member /Laurel ARC/UMARA *
*** 301-549-1022 h 301-982-1015 w *** 35 wpm HF mobile CW Neon ***

Date: Fri, 16 Jan 1998 12:00:02 -0600 (CST)
From: Bill Howell <bhowell@mail.utexas.edu>
To: qrp-l@Lehigh.EDU
Subject: [1131] Re: Good Webb Site Antenna's
Message-ID: <199801161800.MAA24406@mail.utexas.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

John Anthony Reynolds Wrote:

Hi Guy's,

 came across an excellent site whilst searching for info on
Delta Loops etc.

Check out URL:

<http://www.qslnet/~wd8rif/archives.htm>

If you can't access the site, use:

<http://www.qsl.net/~wd8rif/archives.htm> Note the extra "dot".

Bill Howell
University of Texas at Austin
Performing Arts Center
Electronic Maintenance
N5AL0 QRP-L #415

Date: Fri, 16 Jan 1998 18:05:10 +0000
From: Ed Loranger <we6w@qsl.net>
To: rfoltz@wsunix.wsu.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [1132] Re: FOX ID Report
Message-ID: <34BFA156.4329@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Randy Foltz wrote:

>
> Howdy, Gang.
>
> It was an interesting night.<snip>.....
Says it all! I tried a 50 watt qso at 0500Z last night and
it just didn't work.
The Band was DEAD.

> WE6W - How does the thrill of being first compare with the thrill of
> being last? :)

YeeeHaaaa!!! I'm ecstatic, eggstatic, ex-static.. something like
that...

> Equipment was Sierra at 2 w into a GAP Titan. I got too lonely at 2 w
> so around 0325 I changed to the Triton IV at 5 w. I'm not sure it made

> a great difference, but I needed to do something different.

>

You could have been at 100 watts and only improved to one or 2 more
qsos.

Probably. Problem-gation with io-NO-spheric absorbtion was problem-ly
the precipitator -- Am I all wet or what?

> Time Station Sent Rcvd State Name Nr Miles

> 0357 WE6W 559 449 CA ED 1068 900

I'll tell y'all what I had to do to get Randy!
Story later.

Still got mud and dog-doo on my shoes.
-Ed

Thanks agn Randy! Gud job!

--

Recipient of coveted Samuel F. B. Morse Award, NTTC Pensacola, FL 1977.
72/73 de we6w qrp es CW ONLY; Member: QRP-L/ARCI/Norcal/ARS/AR
<http://www.qsl.net/we6w> (From Non-Ham to Extra in one Day.)

Date: Fri, 16 Jan 1998 13:00:04 -0500
From: Peter_Simpson@3com.com
To: Bob_Tellefsen-CNSE97@email.mot.com
Cc: qrp-l@Lehigh.EDU
Subject: [1133] Extruded enclosures
Message-ID: <8525658E.00621184.00@hqoutbound.ops.3com.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii

Bob has discovered extruded enclosures. I have a bunch
(also from old modems), and they seem to be custom made, because
I have never been able to find out where to buy them in small
quantities. But, recycling used enclosures is sure cheaper
than buying new ones, and environmentally good, as well!

There are two types, one, the "Hayes" type, is designed for snap-in
front and rear plastic panels and is not the kind you want. The kind
you want is designed for metal panels held on by two or four self
tapping screws. I got a real nice one which used to be a printer buffer
enclosure (remember those?) and is about 4" high and 8" deep. The neat
thing about it is that you can slice off the depth you need with a
power miter box (carefully). The channels for the screws run the

length of the box, so wherever you cut, you get four screw holes!

Anyway, if anyone knows a company that makes these things, please share the info. You can see an example of what I'm talking about on my web page <<http://www.geocities.com/CapeCanaveral/1862/ka1axy.htm>>. This particular box is not aluminum, but some kind of zinc or white metal casting. It's horribly heavy, but perfectly shielded.

72,
Peter, KA1AXY

Date: Fri, 16 Jan 1998 10:17:39 -0800
From: Bill Jones <kd7s@psnw.com>
To: qrp-1@Lehigh.EDU
Subject: [1134] QRP vs Ditital on 14.060
Message-ID: <34BFA443.8CC92E58@psnw.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Friends,

There have been some heated discussions in the past about digital QRM on the QRP calling frequencies. The biggest problem is usually on 14.060 MHz. There was some speculation that the so called "digi-droids" don't really care whether they QRM a frequency or not. I don't believe that's the case.

I invite all those who have had problems from RTTY QRM (especially during contests) to view the letter (toward the center of the page) from Tom, AB7NV at the following URL:

<http://www.n2hos.com/digital/frontpage.html#see>

I don't know Tom but I can see that he is a gentleman, just as we QRPers are gentlemen. I don't believe digital enthusiasts are oblivious to our plight any longer.

BTW, I am a long-time QRPper (42 years) and a short-time RTTYer (2 years) and I've found no finer people in the world than members of these two special interest groups.

Date: Fri, 16 Jan 1998 13:20:58 -0500
From: Peter_Simpson@3com.com
To: qrp-1@Lehigh.EDU
Subject: [1135] Military NVIS antenna - crossed inverted vees?
Message-ID: <8525658E.0063B565.00@hqoutbound.ops.3com.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii

QRP related -- really!

Fair Radio has for sale, and I'm curious about how it's wired (but not \$150 curious), a AS-2259/GR NVIS antenna. It looks a lot like a pair of crossed inverted vees. Four radiating elements, which double as guys, attached to the top of a mast which doubles as a coaxial feedline (a center conductor runs up inside the mast). The feedline attaches at the base of the mast and runs to the radio.

Anyone know how this thing is wired? Specifically, what goes on at the top of the mast, where it connects to the four elements?

Looks like a neat idea for a portable omni antenna (about 15 feet high from the picture, I'd guess). I'd like to kluge a similar design together and see how it works. Be great for those guys who don't have trees at their campsite :-)

72,
Peter, KA1AXY

Date: Fri, 16 Jan 1998 10:46:12 -0800 (PST)
From: Monte Stark <ku7y@sage.dri.edu>
To: Randy Foltz <rfoltz@wsunix.wsu.edu>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1136] Re: FOX ID Report
Message-ID: <Pine.SUN.3.90.980116104042.8236A-1000000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Randy,

I heard the pack right from the start up. Good sig's from

many....but none from the fox!

I went away and did other things....like eating dinner! Every 15/20 minutes I'd check back. Still no Fox.

I heard Chuck work you. He had a very nice sig off the side of the antenna!

Next time I thought I heard the noise changing and forming a "TK".....wow, it was you at last. I sent my call. You came back calling CQ again....back and forth we went....then you sent "AGN?" and I knew I had you!

About that time you peaked up to about S2/3. Right after the qso you went back down into the noise!

So for all you hunters out there, don't give up just because you can't hear the fox. Watch for the pile up and then listen closely. You just might get one of those little 2 minute windows and grab a fur!!

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Fri, 16 Jan 1998 11:47:05 -0700
From: Steve Galchutt <n0tu@webaccess.net>
To: ku7y@sage.dri.edu
Cc: "\"Low Power Amateur Radio Discussion\"" <qrp-l@Lehigh.EDU>
Subject: [1137] Re: "Effective" Antenna Height
Message-ID: <34BFAB29.7EE1@webaccess.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Monte Stark wrote:

> At 80' I have a box mounted on the tower. There I connect the
> 50 ohm coax from the yagi to the 75 ohm hard line. I use hose
> clamps to hold the braid of the coax to the jacket of the hardline.
> The center conductors are connected with wire nuts.

WIRE NUTS! Yikes! Ron I'm surprised....Just think...u might have gotten a 559 fox report instead of 459 if you had used a solid run of 1" gas-filled hardline w/N connectors. Which would probably cost you more than your current tower and beam put together! Sometimes just good enough is really very GOOD! The trick is "knowing" the difference....in other words, when and which good enough is sufficient.

As a "non-techie" but someone who is willing to build it, try it, unbuild it, rebuild it, retry it, over and over again...it seems I'm always taking the long path through/to emperical wisdom ...BUT man the destination is really 'sweet'.... once I get there. :-)
But getting there sometimes requires crying 'uncle' and publizing my dumb mistakes to the ultimate Elmer....QRP-L! It's only then that I'm really ready to hear the truth and have the ability to recongnize it. And fortunatly there's minimal amount of misinformation on QRP-L and folks take responsibility for their postings unlike the newsgroups. Your right about "just right" or good enough is sometime really GOOD ENOUGH!. Cheers Steve (still learning or in other words I still have a pulse!)

--

CUL Steve/n0tu . .

Solar powered QRP/CW

"Camping" in Monument, CO....email:N0TU@webaccess.net

Date: Fri, 16 Jan 1998 10:55:14 -0800
From: Jeff Grudin <grudin@pacific.vdbs.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [1138] Geez, why didn't I think of that before!
Message-ID: <34BFAD12.37E4@vdbs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well I solved a purplexing problem today. As usual the answer was very simple.

THE PROBLEM: I like to operate from my sailboat when at anchor. The distance from the top of my mast to the bow or stern of the boat is just about the length such that a 30M dipole. My favorite band is 40M.

I have tried several verticals, but have been unhappy with their performance. To date the best I have done is on a multi band version of

the PVC Gusher antenna. I raise the center with a halyard to the top of the mast, and tie off the ends to the bow and stern. The antenna has several spade connectors in it allowing me to drop the center and connect or disconnect them to get resonant antennas for 15, 20, and 30M. This has worked very well and I have been able to work quite a bit of DX with this antenna.

THE SOLUTION: DUH! If I disconnect the junction between 20 and 30 meter legs and insert a loading coil with similar spade lugs, I get a 40M antenna in a 30M length.

I took 2 3in pieces of PVC and wound 10ft of vinyl coated 16 ga wire on them. Placed them in the antenna and voila 2.5:1 at 7.350. By adding a small section to the end of the dipole and trimming to resonance, I will now have a resonant 40 M antenna to use on my boat. (I am waiting until it dries up outside to do this with the antenna in the clear).

Now if it will just warm up and dry out so I can get on the boat and try it out.

--

73 de Jeff AC6KW
grudin@vdbbs.com

QRP-L #16	Private Practice : Companion Animals and
Exotics	
Norcal QRP #1292	Ocean Animal Clinic / Cat Clinic of Santa
Cruz	
	Santa Cruz,
California	

QRP'ers do it with less energy (but lot's of enthusiasm)!

Date: Fri, 16 Jan 1998 12:01:25 -0700
From: tom whalen <whalen@swcp.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [1139] Emtech 20
Message-ID: <34BFAE85.F29@swcp.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Fellow Qrpers!!

Am in the process of building an Emtech 20 meter rig. It is a quality kit for sure. Each section is in different bags so one does not have a clutter of parts, and each section of the rig is done in stages, and tested as you go. Winding the toroids is no fun, but just taking my time and its not too bad.

My plan is to build one of each of the kits offered by all the qrp manufacturers. So far, I have built an OHR(nice rig) and now the Emtech. Next I will build the Small Wonders Lab rig, Ten Tec, and whatever Norcal may have in the works. Cold here and good time for kit building.

Hope to have Emtech ready for QRPTTF, and of course will clean the spud gun so it is in top antenna launching form!!

72, Tom WB5QYT "Have spud will travel!"

Date: Fri, 16 Jan 1998 14:07:09 -0500
From: sgordon1@ibm.net
To: qrp-l@Lehigh.EDU
Subject: [1140] ICOM Reflector
Message-ID: <34BFADFDD.54BB@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Can any one tell me if there is a ICOM reflector?

Thanks
Scott - N4JXI

Date: Fri, 16 Jan 1998 14:10:27 -0500
From: Michael Maiorana <mikemo@ibm.net>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [1141] beer can vertical
Message-ID: <34BFB0A3.70F2@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I've seen a few references to a 40 meter vertical made with beer (aluminum) cans. Can someone point me in the direction of this information.

If those references were a joke, well here I stand with egg on my face.

I can see it now..... Yes honey, I did need to buy these three cases of beer. It's for the antenna. But I need to drink them all first. Hickup! (She just doesn't understand...)

regards,
72 de kf4trd
Mike Maiorana

--
"At home, drawing pictures of mountaintops....With him on top, a lemon yellow sun. Arms raised in a V, the dead lay in pools of maroon below."

Date: Fri, 16 Jan 1998 12:27:36 -0700
From: "Caro, Carlos" <CCaro@ccs.lmco.com>
To: "'qrp-1@lehigh.edu'" <qrp-1@Lehigh.EDU>
Subject: [1142] RE: beer can vertical
Message-ID: <22C29700E1CFD011920900608C14D84B3F7297@cos141-gate55.ccs.lmco.com>

> I've seen a few references to a 40 meter vertical made with beer
> (aluminum) cans. Can someone point me in the direction of this
> information.
>
> If those references were a joke, well here I stand with egg on my
> face.
>

Mike,
It was not a joke. A group of hams from Minnesota actually put up an antenna made of EMPTY beer cans as a vertical.

1. The cans were made of tin in those days so they could be soldered together.
2. The tin bodies were thicker so they would resist twisting.
3. It was a club effort to empty the contents and erect the antenna using ladders.

Regards, Carlos KB0REI

Date: Fri, 16 Jan 1998 12:36:05 -0700
From: wa5whn@juno.com
To: qrp-1@Lehigh.EDU
Cc: vole@primenet.com
Subject: [1143] FYBO '98
Message-ID: <19980116.123613.2718.0.wa5whn@juno.com>

qrp-lers,

We had some People over for dinner a few nights ago, and a good friend of ours, who is not a Ham, had walked to our refrigerator to retrieve a cold drink. When She had opened the refrigerator, She had found 2 radios in the back of one shelf, wrapped in plastic. I had noticed that She had this puzzled look on her face. She did not say a word for over 20 minutes, then She had asked "Why are those radios in the refrigerator ?" , to which I had responded, "So we can listen to cool tunes in the summer." She did not buy that answer, so I had proceeded to tell her that's how I check out my radios for an upcoming radio contest {FYBO '98}. She was very glad to hear that I was not becoming absent minded.

How many of You have practiced sending cw, with just Your' gloves on ?

Anyone notice the tension change, in the springs, on the paddles, when the outside temperature drops below 32 deg. F ? It can become very entertaining. A wee bit stiff on the old paddle.

How many People already have their FYBO '98 operating sites picked out ? What gear are You taking ? Do You have a nifty way of de-icing the antennas ? How many dog sled qrp mobiles out there ?

BTW, I was perusing through <http://www2.ebay.com/> & had noticed a J-37 key on the bid list. It's up to \$60.00. Type "Ham Radio" into the Ebay search engine, without the quotes.

Darn, I wish the UK QRPers would send over some good stout warm ale, for the big celebration after FYBO '98. It's for thawing out the fingers. ;-)

Looking forward to working most of You, from DM54, near Pinetop, Arizona, with the rest of the Az./NM Gang, during FYBO '98 {<http://www.dancris.com/~ki7mn/>} If You are interested in the terrain that we will be playing around in, go rent the movie "Fire in the Sky". We will be right along the Mogollon Rim.

72...Jay, WA5WHN {soon to
be, in a few weeks, /7}

Date: Fri, 16 Jan 1998 14:58:44 -0500
From: "Buck, Preston D" <BuckPD@corning.com>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [1144] FOX: N0GLM log for Thursday
Message-ID: <6B137F61081DD0118DF600805FEAC5C5C8EC10@SILVER.CORNING.COM>
Content-Return: allowed
Mime-Version: 1.0
Content-Type: text/plain

Greetings All,

Below is my log for 16 Jan 98 0000-0200 UTC (15 Jan 98 1900-2100). Last night was very noisy with lots of QRM. The stations I heard stood out from the noise and as long as nobody was right on top of me I managed to work them. I did have to shift frequency about every 20 minutes because of BC station QRM or somebody started calling CQ right on top of me. The band was long and to the Northwest.

If I didn't get to work you I'm sorry. I try to work anybody I can hear and don't like to give up. I tried to move as little as possible and kept my filters wide open when listening for responses. In my QSO with NI0A, I couldn't hear him with my filters in and there was a station close enough that I had a hard time distinguishing between the CW notes. BTW, John has the most melodic callsign I have heard.

	his	mine			
AB0GO	549	339	Dave	CO	5W
K0EVZ	579	559	Doc	MN	
KB7MBI	559	559	Alan	WA	5W then 1W NI0A 559
569 John MN	5W				
VE5RC	549	339	Bruce	SK	5W

If there are any corrections, please e-mail me and I will fix them.

73
Preston, n0glm

Date: Fri, 16 Jan 1998 12:33:58 -0700
From: torell@sicom.com (Kent Torell)
To: Peter_Simpson@3com.com

Cc: qrp-1@Lehigh.EDU

Subject: [1145] Re: Military NVIS antenna - crossed inverted vees?

Message-ID: <v02130507b0e55ecf7d84@[192.91.202.41]>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

>Fair Radio has for sale, and I'm curious about how it's wired (but
>not \$150 curious), a AS-2259/GR NVIS antenna. It looks a lot like
>a pair of crossed inverted vees. Four radiating elements, which
>double as guys, attached to the top of a mast which doubles as a
>coaxial feedline (a center conductor runs up inside the mast). The
>feedline attaches at the base of the mast and runs to the radio.
>

>Anyone know how this thing is wired? Specifically, what goes on
>at the top of the mast, where it connects to the four elements?

We got to use a couple of these during some field tests two years ago. They pack down nicely into a little canvas roll-up bag. The mast is made of about 18" sections that fit together, nice air insulated coax, with silver plate on the inside pipe, and a copper tube up the middle. The top is a simple arrangement, the center conductor connects directly to two wires, and the outside pipe to the other two. Looks like two inverted V antennas without any balun. The radiators are the guy wires, and one is cut about 1/2 as long as the other. (the length is completed with a plastic rope, as I recall)

They did some clever things to help in fast set-up. The radiators had little metal clamps swaged on close to the end. You set the top section down on the ground where you were going to raise the mast, stretched out the wires, and drove the ground stakes where the clamps were. Then you attached the end of the guy to the stake. This set the stakes at the proper distance for the mast height. The mast was designed to mount directly into a man-pack radio, setting on the ground. You started inserting sections from the top side, and the antenna went straight up. When it got high enough to start needing support, the guys were helping out. We would put it up in 5 minutes. There was an accessory adapter that we needed to couple to the mast/coax, and they were often missing. Instead of the regular base, it had a bnc connector on it, making direct connection to the coax mast. You had to use a tuner with it, but if you cut the elements to resonate on your two favorite bands, it would work fine without a tuner.

Very nice workmanship in the mast sections. They called it an NVIS antenna because it is a low inverted V antenna. The elements aren't really long enough to work well down on 80 meters. I measured the vswr vs. frequency, but can't find my 1995 logbook right now :-(

Kent Torell torell@sicom.com 602-607-4852
SICOM 7585 E. Redfield, #202 Scottsdale, AZ 85260
AB70A scQRPion 6,qrp-1 57,ARCI 9075 DM33xn 33.55 N 112.078 W

Date: Fri, 16 Jan 1998 13:40:54 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-1@Lehigh.EDU
Subject: [1146] Re: Effective Antenna Height
Message-ID: <199801162040.NAA19110@usr06.primenet.com>

Howdy,

Andy (KK7HV) wrote:

> You're right - I forgot to mention that my antenna is a dipole cut for
> 40 meters. It's low (<15 feet).

Just another data point for you to consider. When I moved to my AZ QTH I had, to that point, used nothing but low (<15 ft) dipoles and QRP WAS seemed like a distant dream.

Having no trees (I'm watering 'em as fast as I can ;-)) I finally decided to try something different. I installed an antenna mount on the corner of my patio cover, set up six raised radials (much to my wife's chagrin) and started using Hamsticks. Yep, Hamsticks. Those little inefficient loaded verts.

Ended up working QRP WAS and my first JA with it (40/30m). So don't get stuck in a rut with just one antler. Collect them all, win valuable prizes. :-)
Good luck!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"Let it snow, let it snow, let it snow!"

Date: Fri, 16 Jan 1998 13:34:54 -0700
From: "Steve Hurst" <shurst@magiclink.com>
To: <kd7s@psnw.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [1147] Re: QRP vs Dittal on 14.060
Message-ID: <199801162041.PAA68342@nss4.cc.Lehigh.EDU>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

-----Bill Jones wrote (in part)-----

>
> Friends,
>
> There was some speculation that the so called "digi-droids" don't
> really care whether they QRM a frequency or not. I don't believe that's
> the case.

You are right Bill, I'm a digi-droid (on Altoids !!) of sorts myself. I
always check the freq to see if its clear before txing. QRL ? using CW as
well as RTTY, usually asking several times and then listening for an answer
!

>nisp.....nsip.....pins.....snip.....yeah !

>
> BTW, I am a long-time QRPer (42 years) and a short-time RTTYer (2 years)
> and I've found no finer people in the world than members of these two
> special interest groups.
>
>

Right'o again Bill !! I have found a different sort of "class" in these
two catagories of hams. Most are Ladies and Gentleman (with the occasional
O.F. here and there ! :-)). Take care.....

73,
Steve Hurst
KA7NOC (southern Idaho)
<http://www.magiclink.com/web/shurst>
shurst@magiclink.com

P.S. HEY W.P.C. !!!!!! How's about kitting that there "Tuna Tin Two "
????? GREAT PICTURE !!!!!! Would the Albacore be a QRO rig or QRP ??
Better quality , so I guess it would be QRP , eh ? :-)

Date: Fri, 16 Jan 1998 10:37:34 -0500
From: Robert Nygren <rnygren@epix.net>
To: w5hir@gte.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1148] Re: 6 meter operation
Message-ID: <34BF7EBD.BE395162@epix.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Junius,

You've stumbled upon a VHF/UHF "Problem". Everyone dials to the "calling" frequency and LISTENS. Call CQ! Once you have established contact with someone on the "Calling" frequency, move your QSO up 10 or 20 KHz to allow someone else to use the calling frequency.

It's considered "improper" by some, to have a QSO on the calling frequency. So it's best to move off the calling frequency once contact is established.

There has been some single and double hop E skip the last week or two. Don't be surprised if your call is answered by someone half way across the country!

73, Bob N3RN FN11WH <rnygren@epix.net>

JUNIUS B FOX wrote:

>
> Seems like I'm always asking questions, but need some help.
>
> I have never operated on 6 meters before, and have built
> up a Ten-Tek 2 meter to six meter transverter. I have been
> listening on the "calling frequency" of 50.125. The band
> is either dead or the transverter is. HI!..I have aligned everything and
> tested the receiver with an RF source, seems
> to be a good one. So far, I have got what the little boy shot at,
> zilch. I could sure use some ground rules for operating on six.
>
> tnx,
>
> Foxy

Date: Fri, 16 Jan 1998 13:57:43 -0600

From: "Marshall Emm" <mgemm@mtechnologies.com>
To: cqclist@lists.csn.net, qrp-1@Lehigh.EDU
Subject: [1149] Learning Morse
Message-ID: <199801162056.NAA24699@edison.chisp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

An interesting and informative paper "Learning and Using Morse Code" by Bob Nellans, KB9DE, has been published on the CQC Web Site.

This is the first in a series of papers, lists, and other operating resources we will be making available.

To get to Bob's paper, surf to <http://www.mtechnologies.com/cqc> and look for the link below the button panel.

73
Marshall Emm
N1FN/VK5FN
n1fn@mtechnologies.com
Milestone Technologies
Software, kits, tools...
<http://www.mtechnologies.com>
(303)752-3382
--

Date: Fri, 16 Jan 1998 15:57:04 -0500
From: "Watson R Gabriel Jr" <wgabriel@duke-energy.com>
To: rfoltz@wsunix.wsu.edu
Cc: qrp-1@Lehigh.EDU
Subject: [1150] Re: FOX ID Report
Message-ID: <8525658E.0070CB0F.00@dpcmail.dukepower.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Hi Randy I'm the "WB4EBW" you contacted, 'cept it is really WB4EXW. All other info is correct. That last "dah" on the X must have gotten shorten up in the noise to give you the B!! Ha! I did hear you send the WB4EBW at the end and I tried to come back again with my call, but people started calling you again and I never did get acknowledgement. It was a lost cause by then.

It was ruff! There were times prior to your hearing me that you had better

sigs. Truthfully speaking the 339 I gave you was being "nice" at the time as you were fading and were getting worse at the last of our QSO. But it was a great QSO for the condix and equipment we were using. I kept swapping around among 3 antennas to see which one seemed to be hearing you best at the time. Worked you on a little 40m dipole about 22ft up in the air pointed generally in your direction. It seemed to be doing better than the 40m half-square or the 140-ft slightly inverted-v at the time. Both of the latter are up at the 45-50ft level. Will say that the 140ft dipole was doing about the same though.

Thanks for the QSO and hope we do it again -- I hope under better condix!!

PS - You did real well to get my name!! Most mistakes are on it and not the call! Ha! A couple of times I have tried shortening it to WATT which is my nickname and you can guess what happened -- they started confusing it with power level. Maybe I need to start using my other nickname DOC that some folks gave me for the "Dr. Watson, I presume" connection even though that is my first name. Fun, huh!! Hey Doc, K0EVZ, would I be infringing if I did this?

72 - Watson/WB4EXW

WB4EBW - I sure had a tough time with your call. Hope I got it right.

Note that this QSO was good for 1,000 miles per watt!

0231 WB4EBW 559 339 NC WATSON 5W 2200

72,

Randy

AB7TK ARCI QRP-L NORCAL NWQRP ARS

Moscow, ID

Date: Fri, 16 Jan 1998 15:05:36 -0600
From: Ed Manuel <n5em@flash.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [1151] RE: beer can vertical
Message-ID: <3.0.5.32.19980116150536.008d6100@pop.flash.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

The beer can vertical is actually not a bad design. Soldered together, they are fairly strong and large enough in diameter to provide a nice usable bandwidth. One could do the very same thing today with tin soup cans or 1 lb. coffee cans. An antenna like this 33 ft. long would be self supporting requiring only a set of guys to keep it up. If you decide to try this, just make sure you get paint on all those rustable tin surfaces.

Of course, you could use a piece of aluminum tubing :-)

Ed, N5EM

Ed Manuel, N5EM
n5em@amsat.org
n5em@flash.net

Date: Fri, 16 Jan 1998 16:27:42 -0500 (EST)
From: Robert Parks <rob3ert@vegas.infi.net>
To: mikemo@ibm.net
Cc: qrp-1@Lehigh.EDU
Subject: [1152] Re: beer can vertical
Message-ID: <199801162127.QAA20079@fh102.infi.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Michael,

That antenna was built using STEEL beverage cans, not aluminum. The cans were "de-topped" and "de-bottomed" and soldered around their rims up to the height required. I saved cans, for years, to build one of those antennas. However, before it ever got built, we moved and the X-XYL said the cans had to go. (Maybe that's one of the reasons that she is an "X"-XYL!)

Don't know how it could be done with aluminum cans.

72/73

Bob Parks
K6AEC (Las Vegas)

At 02:10 PM 1/16/98 -0500, you wrote:

>I've seen a few references to a 40 meter vertical made with beer
>(aluminum) cans. Can someone point me in the direction of this
>information.
>
>If those references were a joke, well here I stand with egg on my face.
>
>I can see it now..... Yes honey, I did need to buy these three cases of
>beer. It's for the antenna. But I need to drink them all first. Hickup!
>(She just doesn't understand...)
>
>regards,
>72 de kf4trd
>Mike Maiorana
>--
>"At home, drawing pictures of mountaintops....With him on top, a lemon
>yellow sun. Arms raised in a V, the dead lay in pools of maroon below."
>
>

Date: Fri, 16 Jan 98 16:37:22 -0500
From: "John Sundstrom" <sundstrj@gvsu.edu>
To: <qrp-1@Lehigh.EDU>
Subject: [1153] FS: HW-9, OHR EXPLORER-II
Message-ID: <9801168849.AA884986684@gvsu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Two nice QRP Rigs For Sale:

HW-9 with warc bands includes manual and schematics. Near Mint condition, I used it on 80 with good reports. Also included is Heathkit catalog showing the HW-9, MM-9, ect. \$ 300.00 shipped con usa.

OHR Explorer II (40m) I built it and had Dick go over and tune it up. Includes manual. Good rig. \$ 90.00 including shipping.

Please reply to me (sundstrj@gvsu.edu) or call 616-847-8495 if interested.

Date: Fri, 16 Jan 1998 21:59:58 +0000
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1154] FOX: AB7TK/WE6W Story...
Message-ID: <34BFD85E.6120@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Shrt ver. fer sped redders:

Band condx bad; Birthday party duties fon 10 yr. old son,
Dinner,Candles, wish, cake, icecream, Gift, Try Fox in between,
Move dipole leg for vee-dipole to Idaho, 1 minute window out
of QSB, Pelt landed!

Rah! Rah! Dance. In house, get warm.

Tks,

-Ed

Slightly Embellished Story: 8^)

They arrived at the beginning of World War I. Grandma, known for her beautiful and accurate ink landscapes, was approached by the war department.

A new ink had been developed is all we knew then. Worked well on silk.

Surveillance teams supplied the roughs, and grandma created the perfect maps, on silk, such as not to be detected sliding withing the confines of the officers' jackets. Upon escaping the prisons, downed pilots succeeded in finding their way home using her trusty maps and special survival equipment.

And so the memory sustained itself as I reached for Grandma's parting gift to me, my trusty Ear Muffins -- 1916 Vintage wool/silk with imbedded headphones. These really kept the cold away.

And tonight it was cold. My east/west Dipole and OHR-100 ham radio rig appeared destined to spend another 2 hour, frigid foxhunt together. At least my ears were warm, I thought.

But music from the hounds was far away. Their yelping seemed modulated by the sea of QSB. "Who are they after?", I thought. For surely I could not hear their prey -- that flighty, furry creature -- that fox!

Well hid, he was. I had zero beat the last signal, peaked the rit to an efficient 600 Hz offset, then 500 Hz where I noticed the signals better out of the noise. SWR Optimized at 1:1; 4 watts max out of the tuner.... Hmmm, I had done all I could.

So I settled in, turning up the neck of my coat, adjusted the ear muffs for the long journey, closed my eyes and gently dropped my head forward, listening.

NO! I can do better. Think, think. I pulled off the ear muffins, the CW signal fading as I place the sleek headset on the table. Then switched to speaker. QRM! They find the fox QRG, like a magnet it attracts them -- Ragchewers from hell....

Magnet, I thought. Yes! Thanks Grandma! I grabbed the Earmuff headset.

Lifting the Silk/Wool covering over the left earmuff, I then carefully rotated the plastic speaker cover counterclockwise. "This could save your life someday!", grandma scorned. That was 35 years ago. She made me practice for hours.

I continued turning the cover. Ah! The strand presented itself. Gently tugging on the end, I carefully removed a 1 foot strand of metal. Etched along it's length I could read multiple copies of the alphabet and numerals.

Setting that aside, I rotated the Right ear piece and removed the other wire and quickly twisted its ends, forming a nice circle. I then cut the letters and numbers from the first metal strand. Carefully, I waved the circular metal piece over the cuttings and am still amazed how the lightweight metal characters jumped onto the ring.

I sloshed thru the rain soaked yard to my antenna support. I placed the ring around the vertical aluminum section. Nothing happened. I had to move the antenna!

So, I placed the magnetic ring over the 2 inch umbrella hole in the picnic table. I removed the guy rope and antenna tensioning rope from their stays on the fence. On one end my dipole is supported by a 33 foot section of aluminum mast. A 2 foot piece of 1/2 inch dia. PVC is affixed at the top such that the rope from the dipole end is threaded through the 2 foot tunnel of the pvc tube and out to the fence.

Thus enabled, I easily moved the vertical mast to the picnic table, down the hole and into the umbrella stand. I quickly secured both guy-rope and antenna rope. I lifted the mast and allowed the magnetic metal ring to encircle it.

Nothing. Well at least it now appeared pointed toward Idaho. I guess the ring wasn't working.

Back in the shack, it is 0355Z. I've tuned up and down across the band. Then it happens! I hear him! RST 579. Wait, wait, he's working someone. OK! DE WE6W WE6W ; QSL info both ways!

I do the dance, I fill the log 0356, 559 449 AB7TK Fox # etc....

But the wind and rain was coming up a bit so I went to remove the mast from the picnic table. That's when I noticed the ring. All the letters had fallen off.... Stupid thing!, I thought. Signal magnet indeed!

Then I turned the ring over, and there, on the underside, and in proper order: AB7TK

Thanks Randy!
-Ed Loranger, we6w

--

Recipient of coveted Samuel F. B. Morse Award, NTTC Pensacola, FL 1977.
72/73 de we6w qrp es CW ONLY; Member: QRP-L/ARCI/Norcal/ARS/AR
<http://www.qsl.net/we6w> (From Non-Ham to Extra in one Day.)

Date: Fri, 16 Jan 1998 15:50:17 -0600
From: Bill Schiller <schiller@cherokee.nsuok.edu>
To: mikemo@ibm.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [1155] Re: beer can vertical
Message-ID: <34BFD619.E9507150@cherokee.nsuok.edu>
Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Michael Maiorana wrote:

> I've seen a few references to a 40 meter vertical made with beer
> (aluminum) cans. Can someone point me in the direction of this
> information.
>
> If those references were a joke, well here I stand with egg on my
> face.
>
> I can see it now..... Yes honey, I did need to buy these three cases
> of
> beer. It's for the antenna. But I need to drink them all first.
> Hickup!
> (She just doesn't understand...)
>
> I don't know about aluminum cans, but in the pre-aluminum can days you
> could indeed make a vertical using beer cans soldered together end to
> end. I made two of them and they worked well. I'm not sure how to hold
> aluminum cans together[won't solder well] but I'd like some ideas on
> that. Might be a good antenna for the Tuna Tin, while we are going back
> to the "good ole days"!!!!

Date: Fri, 16 Jan 1998 22:24:42 +0000
From: Ed Loranger <we6w@qsl.net>
To: shurst@magiclink.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1156] Re: QRP vs Ditital on 14.060
Message-ID: <34BFDE2A.5AA9@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Right question, wrong spelling:
"How about 'kitten' the Tuna Tin Two"

Friday. Had to.

Guffaws from me, es 73
-Ed

Steve Hurst wrote:

> P.S. HEY W.P.C. !!!!!! How's about kitting that there "Tuna Tin Two "
> ?????? GREAT PICTURE !!!!!! Would the Albacore be a QRO rig or QRP ??
> Better quality , so I guess it would be QRP , eh ? :-)

--

Recipient of coveted Samuel F. B. Morse Award, NTTC Pensacola, FL 1977.
72/73 de we6w qrp es CW ONLY; Member: QRP-L/ARCI/Norcal/ARS/AR
<http://www.qsl.net/we6w> (From Non-Ham to Extra in one Day.)

Date: Fri, 16 Jan 1998 17:27:33 EST
From: BParkes <BParkes@aol.com>
To: qrp-l@Lehigh.EDU
Subject: [1157] Some rigs hard of hearing?
Message-ID: <46e4f4f2.34bfdedd@aol.com>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Howdy,

I wonder if some of the new QRP rigs send better than they hear? It has happened before, but the other night was the one that got me to really thinking. Heard a CQ on 40 mtrs that was a solid 559. Answered with my HW 9 three times with no response. Slow night so I fired up the Kenwood at 100 watts and got him the first time. He gave me a 579 and was still a 559 here. He seemed quite proud that he was QRP but didn't mention his rig. Then the guy down the street fired up his rig (he can't hear anything) and wiped out the freq. with his CQs.

Makes me wonder if some rigs talk better than they hear. The HW 9 seems well balanced that way, if I can hear them, most times I can work them. Just a thought.

73 Bruce, KA2ZGW, San Antonio TX

Date: Fri, 16 Jan 1998 15:33:54 -0700 (MST)
From: flydnq7x@primenet.com (Floyd Smithberg)
To: qrp-l@Lehigh.EDU
Subject: [1158] Trade for Laptop
Message-ID: <199801162233.PAA15108@smtp03.primenet.com>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Trade 5W NC40A W/KC1 OR 5W NW8020 W/KC1 OR 5W OHR Explorer for
Toshiba or Compaq 286 or 386 Laptop in good condition with HD, 3.5 floppy,
charger, accessories.

Need for running TR contest software in field contests.

73 Floyd NQ7X Phoenix ScQRPion DM33uq QRP-L 343

ARRL AMSAT ARCI G-QRP NORCAL DX WRKD HF=324 SAT=101 QRP=108

Date: Fri, 16 Jan 1998 22:38:53 +0000

From: Ed Loranger <we6w@qsl.net>

To: BParkes@aol.com

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [1159] Re: Some rigs hard of hearing?

Message-ID: <34BFE17D.73D8@qsl.net>

Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

I too worked a guy last night that got my attention.

I was running 5 watts and he got my call ok. But with
the 339 and band noisy and QRM I decided to kick up to 20
watts, still 339, 50 watts 339, 70 watts 339 (Can't go
higher or the QRP Tuner and Wattmeter send smoke signals :)

I figure it may be a Receive offset problem on his end.
I know i can zerobeat +/- 50 hertz without even trying
hard.

My \$.02.

73/Ed

--

Recipient of coveted Samuel F. B. Morse Award, NTTC Pensacola, FL 1977.

72/73 de we6w qrp es CW ONLY; Member: QRP-L/ARCI/Norcal/ARS/AR

<http://www.qsl.net/we6w> (From Non-Ham to Extra in one Day.)

Date: Fri, 16 Jan 1998 17:28:59 EST

From: N10DL <N10DL@aol.com>

To: qrp-L@Lehigh.EDU

Subject: [1160] 38 Special in NH

Message-ID: <243f97a3.34bfdf2d@aol.com>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Sorry Randy for using this to write you but I lost your e-mail address.
The kit arrived safe and sound. Hope you got some mail from me. you should of
by now.
Can't wait to get home and start on the kit.
It looks like you might have market the manual with the changes. is that the
case?
Thanks, I will keep you updated.
Aron
N10DL

Date: Fri, 16 Jan 1998 21:43:50 -0000
From: John Anthony Reynolds <D2250077@infotrade.co.uk>
To: "'gqrp-1@blacksheep.org.'" <gqrp-1@blacksheep.org>
Cc: "'qrp-1@lehigh.edu'" <qrp-1@Lehigh.EDU>
Subject: [1161] Bazooka Antenna
Message-ID: <01BD22CA.4E8DDCA0@default>

Hi Guys,

Thought this may be of interest to members, sorry for the cross-
posting, taken from Ham-ant Digest V98 # 32

73 de John G3PT0 GQRP 595

.....
.....
From: k9euv@juno.COM (Dan G CAESAR)
Subject: K9EUV bazooka

DOUBLE BAZOOKA/COAXIAL DIPOLE ANTENNA

A typical, dipole antenna has bandwidth of about 50 to 100 KHz. The
bazooka is resonant in the center of the band and had an SWR of 2:1 or
less across the entire 80 meter band?

The "Bazooka" antenna was developed by the staff of M.I.T. for radar
use. The original "Bazooka" used coaxial cable for the entire radiating
elements.

The adaptation used in amateur radio uses coax only for
the broadbanding portion of the antenna, while the remaining

portion of the elements are constructed of twinlead or ladder line (see attached sketch). Ladder line is preferable for its inherent strength.

This is a single band antenna. It will not radiate harmonics of your operating frequency. In addition, there is very little feedline radiation, which is great for those who have problems with TVI. Its broadband characteristic makes it ideal for 80 meters and 10 meters.

The Bazooka antenna consists of a half-wavelength of coaxial line with the outer conductor opened at the center and the feedline connected to the open ends. The outside of the coax and the ladder line operate as a half-wave dipole. The inside of the coax elements, which do not radiate, are quarter-wave shorted stubs which present a high resistive impedance to the feed point at resonance. Off resonance, the stub reactances change in such a way as to cancel the antenna reactance, thus increasing the bandwidth of the antenna.

At the very center of the coax carefully cut away about one inch of the outer vinyl jacket.

Then cut the exposed shield all the way around at the center of the exposed area. Be careful that you do not cut the dielectric material or the center conductor in the process. Twist the two pieces of exposed shield into small pig-tails. These are the feed-point terminals for the antenna. The center conductor of the feedline is soldered to one and the shield of the feedline to the other. Now solder the center conductor and shield together at each end of the antenna element. Solder the two ladder line wires to the end of the antenna element. At the other end of the ladder line, solder the two wires together.

Use a square piece of plastic at the antenna center, drilling a small hole on each side of the coax, wrapping a small wire around the coax and through the holes and twisting the wire together on the other side. A small amount of quick setting epoxy secures the coax to the plastic support and prevents the wire from untwisting.

A coating of silicone rubber or epoxy seals and protects the feed-point from the weather. Do the same where the ladder line is soldered to the shorted end of the coax.

Short the center to shield at each end of the coax.

Short the twin lead at each end and solder the coax/shield junction to the coax.

50 Ohm Coax feedline
at least 66 feet long.

NZ8J

Date: Fri, 16 Jan 1998 18:15:15 EST
From: nq2rp@juno.com (B/BAMS Club Station)
To: qrp-l@Lehigh.EDU
Subject: [1163] FS: Dentron Super Tuner Plus
Message-ID: <19980116.181421.4711.5.nq2rp@juno.com>

OK, it's not really a QRP tuner, but it works fine on QRP, and very efficiently, too!

Tuner covers 160 - 10 Meters, will handle coax, single wire or balanced wire.

No built-in wattmeter or SWR bridge, but there is a relative meter on the front panel. Basically a T-network like an MFJ 945, but scaled up for higher power.

Asking \$150, including shipping

Drop me a reply here at the club.

72/73, Keith, WB2VUO at the keys at B/BAMS
NQ2RP - QRP-L # 1294,
Byron/Bergen Amateur Microwaves System Club Station
Listen for our 10 Mtr Milliwattting Beacon: 125 mW @ 28.287 MHz
"Our night light runs more power than our Rig!!!"

Date: Fri, 16 Jan 1998 18:15:24 -0500
From: "Ronald Hands" <rhands@hwcen.org>
To: <qrp-l@Lehigh.EDU>
Subject: [1164] 17 meters
Message-ID: <199801162327.SAA11243@hwcen.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Thanks to all who responded to my query about a QRP calling/listening frequency on 17 meters.

Now I know that it's on 18080, or maybe 18086, or 18090, or 18096 <g>.
Look for me somewhere in there!

Ron VE3SP

End of QRP-L Digest 972

